

1970

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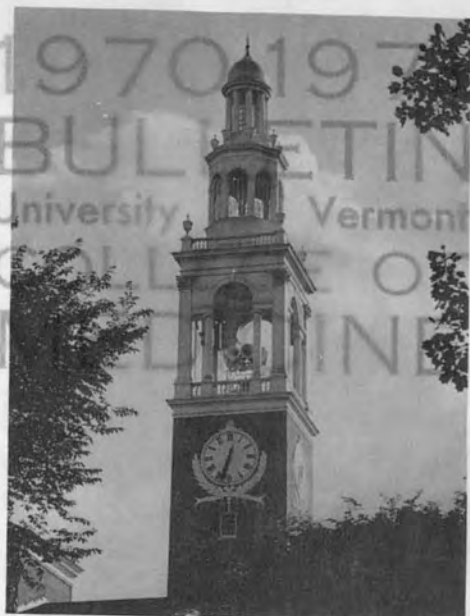
1970 - 1971 BULLETIN
UNIVERSITY OF VERMONT
COLLEGE OF MEDICINE



Bulletin of the University of Vermont • Volume 68 • February 10, 1971 • Number 15

Published by the University of Vermont, 85 South Prospect Street, Burlington, Vermont 05401, 25 times a year: once in June; twice in August, October, November, December, January, April and May; three times in February and September; and four times in March.

Second Class postage paid at Burlington, Vermont 05401.



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1970-1971 BULLETIN University of Vermont COLLEGE OF MEDICINE

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History of the College of Medicine

The first General Assembly of the State of Vermont, convened in 1791, chartered The University of Vermont. Ira Allen, younger brother of Ethan Allen, had given 4,000 pounds sterling to help establish the institution. Instruction was started in 1800 and the first class graduated four years later.

Meanwhile Dr. John Pomeroy for many years the leading physician of Burlington, began around the turn of the century to take pupils. In 1804 he was appointed Lecturer in Chirurgery and Anatomy and, in 1809, Professor of Physic, Anatomy and Surgery at the University. The position carried no stipend nor did the institution even provide a room in which to give instruction. By 1814 Pomeroy had so many students he could no longer accommodate them in his home and he consequently rented an empty store in which he lectured to a class of 12. His son, John N. Pomeroy (not a physician), added a course of lectures in chemistry in 1816 and to these the townspeople occasionally came out of interest in the demonstrations.

In 1822 a faculty of 5 professors including John Pomeroy and Nathan R. Smith was assembled and the Trustees of The University of Vermont ruled that the president might "confer medical degrees on such persons as shall attend the medical lectures and are recommended by the medical professors and lecturers of the University." Dr. Smith's father, the more famous Dr. Nathan Smith and the founder of the medical colleges of Dartmouth, Bowdoin, and Yale, is said to have helped in the organization of the Vermont school.

In the early years of the 19th century only a small portion of medical education took place in the universities. The part-time doctor of colonial times had given way to the full-time professional physician but there was no legal regulation of the practice of medicine. Most degrees and certificates, if they were obtained at all, were granted by the medical societies after the candidate had served as an apprentice.

William Beaumont, the Army Surgeon whose experiments on the physiology of digestion as performed on the person of the French Canadian youth, Alexis St. Martin, formed the basis of this science, began his medical career in Vermont.

While still a school teacher in Plattsburgh, N.Y., he is said to have paddled a canoe across Lake Champlain to read in the library of Dr. Pomeroy and later was apprenticed to Dr. Benjamin Chandler of St. Albans. The minutes of the Third Medical Society of Vermont record that on the second Tuesday of June, 1812 Beaumont "presented himself for examination in the different branches of the medical profession" and was approved.

In the late 1820's a group of local physicians interested some philanthropically-minded residents of Burlington in buying land for a medical college building

adjacent to the University campus and in 1829 a two-story brick building was built. In 1828 Benjamin Lincoln, the grandson of the famous revolutionary general of the same name, was invited to Burlington to give a course of lectures in anatomy. Lincoln had had a classical education at Bowdoin and had been apprenticed to the fashionable and distinguished Dr. George Shattuck of Boston. Rustic and educationally unprepared as most of the Vermont students were, they were evidently entranced by Dr. Lincoln's beautiful demonstrations and the clarity of his presentations. He was offered the chair of anatomy and although the Universities of Maryland and Bowdoin both solicited him he chose Vermont, perhaps because he "hoped to realize . . . his idea of a medical school in this University without the hindrance of encrusted organic remains from old formations." Lincoln soon became the leading light of the school which flourished for a few years. Unfortunately he became ill and in 1834 went back to his home in Maine to die. There were now two other medical schools in the State and an economic depression was developing. In 1836 after having granted 116 degrees in course and 24 honorary ones, the College of Medicine closed its doors.

There was a lapse until 1853 when after many tribulations, most of them financial, Drs. W. S. Thayer of Northfield and Walter Carpenter of Randolph succeeded in re-organizing the Medical College. Subscriptions were solicited from the medical professors and the Burlington townspeople and Mrs. Thayer held a "fair" which netted \$450.00. The University provided a building (the same one which had been used by Dr. Lincoln and which still is in use, although for different purposes) on the academic campus. In spite of competition from the schools in Woodstock and Castleton in Vermont, and Hanover, N.H., courses were started and the school remained viable largely through the efforts and personal and professional distinction of Drs. Thayer and Carpenter, both of whom served successively as Dean. The average student attendance from 1859 to 1878 was about 65. Then under the deanship of Dr. A. P. Grinnell there was a period of rapid expansion reaching a high tide in 1884 when 101 young men were graduated in Medicine.

The University of Vermont College of Medicine was then, as were most others of the day, essentially a proprietary institution. The University provided some amenities, and it was to a considerable extent responsible for the success with which the College outlasted many of its competitors. The medical faculty was, however, a closed corporation collecting its own fees and providing its own administration. That this was not an ideal situation was apparent to the profession and in fact it was a movement toward reform of medical education proposed by the Vermont State Medical Society in the 1840's which led to a national convention which later evolved into the American Medical Association. In 1899 the Trustees of the University, although as yet only dimly aware

History

of the enormous responsibility, financial and otherwise, which this was to entail, took over complete control of the College of Medicine.

Medical education in the 19th century was didactic but clinical teaching, a rare luxury at first, became progressively more important. In 1879 the Mary Fletcher Hospital was built in Burlington and in 1924 the DeGoesbriand Memorial Hospital began to admit patients. Both became centers of clinical instruction and in 1967 the two institutions merged to form the Medical Center Hospital of Vermont, providing an even closer association with the Medical College while at the same time retaining long traditions of service to the sick.

During the post-World War II deanship of Dr. William E. Brown, the faculty of the College of Medicine began a period of exponential growth, adding a national and then international flavor to the academic medical community. Under Deans George A. Wolf, Jr., Robert J. Slater, and Edward C. Andrews, the responsibility of American medicine toward the developing nations of the world has been implemented, research has flourished, and the material resources of the institution have increased, culminating in the construction of a new medical college building completed in 1968. In expectation of this, 75 students were accepted for admission to the class entering in September 1968.

The physician, while still in most instances the captain of the health team, is being joined by increasing numbers of other professional personnel who bring to the care of the patient diverse disciplines, talents and techniques, many of them unknown a few years ago. The University has responded to this trend by two recent developments, one administrative and the other academic. In December of 1967, the Trustees approved the establishment of the Division of Health Sciences bringing together into an administrative unit, the College of Medicine, the School of Nursing and the newly founded School of Allied Health Sciences to include the courses of instruction in Dental Hygiene, Medical Technology and Radiological Technology. Others will undoubtedly be added.

The academic consequence of this increase in complexity has been the recognition that specialization, already well established in the patterns of medical practice, may begin in medical school, allowing the student to follow his interests and obtain maximum benefit from the time and effort expended. The curriculum has therefore undergone a major revision as will be seen in later pages of this brochure.

Student Information

REQUIREMENTS FOR ADMISSION

Applicants to The University of Vermont College of Medicine are expected to complete the required courses of study by July 1 preceding the September admission date—in a college or university accredited by the National Committee of Regional Accrediting Agencies of the United States.

Required are one year each of the following college level courses:

- Biology
- Physics (including laboratory)
- General or inorganic chemistry
- Organic chemistry

In addition, because a physician requires a broad and balanced cultural background as well as a technical education, the College recommends as appropriate to an adequate premedical program:

English—at least one and preferably two years of composition and/or literature.

Mathematics—dependent upon secondary school preparation but should include at least an introduction to calculus.

Behavioral Sciences—one or two years in the areas of psychology, sociology or anthropology.

The Humanities—at least two years of course work in history, philosophy, religion or the arts.

The College of Medicine encourages its prospective students to concentrate while in college in a field of knowledge of their choice, whether in the sciences or humanities, and to pursue these interests in depth.

Eligibility of an applicant for admission is determined by the Admissions Committee of the College of Medicine on the basis of the following:

The scholastic record of the applicant in his premedical work.

Aptitude and motivation for the study and practice of medicine as determined by information from the applicant's undergraduate faculty and by personal interview with the Admissions Committee.

The applicant's scores on the Medical College Admission Test. Applicants are urged to take the Test in May preceding application.

A maximum of seventy-five students is admitted to each entering class. The faculty sincerely hopes that each entering student will successfully complete the medical curriculum and graduate with the degree of Doctor of Medicine.

Preference for admission is according to the following priorities:

Regulations for College of Medicine Students

Qualified residents of Vermont.

Qualified residents of other New England States having contractual arrangements with the College of Medicine through the New England Board of Higher Education. Contracts are presently in effect with the States of Maine, New Hampshire, Massachusetts and Rhode Island.

Qualified residents of other areas. The number of places for residents of other areas is limited and competition for these places is especially keen.

Sons and daughters of alumni of the College of Medicine are given special consideration within the framework of the above policy.

The final closure date for receiving applications is November 1 preceding the September admission.

An application fee of \$15.00 (not refundable) is payable on request of the Office of Admissions.

When an applicant is offered admission to the College of Medicine and wishes to accept the place offered, a deposit of \$100.00 must be paid no later than two weeks following notice of acceptance in order to reserve a place in the entering class. This deposit is refundable up to March 1 preceding admission, should the applicant release his place in the class. The deposit is applied toward the applicant's tuition upon matriculation in the College of Medicine.

ENROLLMENT

All entering students register at the commencement of the academic year. Payment of tuition and fees is required at this time. A late registration fee will be charged students who fail to register on the day designated for registration.

Regulations for College of Medicine Students

Students are governed by the regulations as stated in the Bylaws of the College of Medicine. Some of the more pertinent regulations in these Bylaws are as follows:

ATTENDANCE

No student is eligible for a medical degree who has not been registered in medical school four complete consecutive years unless a leave of absence has been granted by the Executive Committee. Resumption of study after other absences greater than the time allowed for absence will be permitted only on majority vote of the Faculty of the College of Medicine upon the recommendation of the Admissions Committee.

ADVANCEMENT

Student performance is evaluated within the context of the objectives of each course and includes proficiency in laboratory and practical exercises, recitations and performance on examinations.

Final examinations may or may not be held, at the option of the department, with the approval of the Dean.

A student who fails to present himself at the appointed hour for any examination at which he is due to appear will be treated as having taken the examination and failed to pass it, unless he is excused from such an examination by the chairman of the department or division concerned.

If a student fails a final written examination or any course, the final written examination, if any, shall be filed in the Dean's Office.

Student performance is evaluated on the basis of Pass or Fail, which will be the only evaluation recorded by the Dean's Office as an official part of the student's transcript.

Departments may apprise students of their performance in any examination. Students will be notified of their performance (Pass or Fail) at the end of each course.

Final course reports (Pass or Fail) shall be submitted to the Dean's Office. If a course terminates in midterm, final reports shall be delivered to the Dean's Office within two weeks after such termination.

The Committee on Advancement reviews the scholastic records of all students at least twice yearly, and may do so at any time. Specific procedures under which the Committee on Advancement operates are as follows:

A. BASIC SCIENCE CORE

1. Students who have satisfactorily completed the work of the Basic Science Core will be advanced to the Clinical Science Core by the Committee on Advancement.
2. Students failing any of the work of the first three trimesters of the Basic Science Core, may, by majority vote of the Committee on Advancement, be permitted to advance to the fourth trimester by satisfying the requirements of the Department(s) concerned prior to commencement of the fourth trimester, except that:
 - a) Any student failing to satisfy the make-up requirements in more than one subject will be dismissed from the College of Medicine for poor scholarship.

Regulations for College of Medicine Students

- b) Any student failing a single make-up will be permitted to continue with his class through the fourth trimester with the following provisions: i) He must satisfy the requirements of the pertinent Department *before* the end of the fourth trimester; ii) *He is permitted no failure in the work of the fourth trimester*; iii) Such students, failing to meet *both* requirements (i) and (ii) will be dismissed from the College of Medicine for poor scholarship.
- 3. a) Students failing any of the work of the fourth trimester may, upon recommendation of the Committee on Advancement, remove the deficiency(ies):
 - 1) By satisfying the requirements of the Department(s) concerned *prior* to entrance into the Clinical Science Core, either:
 - i) before the end of the Christmas vacation, or
 - ii) by delayed (2-4 months) entry into the clinical rotations. The service(s) omitted will be completed during the first portion of the Senior Major Program.
 - 2) In the instances of Psychopathology, (Department of Psychiatry), and Introduction to Clinical Disciplines, (Department of Medicine), by assignment to the clinical rotation in which the failure was recorded. The deficiency must be removed to the satisfaction of the Department in question before the student may proceed through the Clinical Science Core.
- b) Any student failing his second attempt to meet the requirements of the fourth trimester courses will be dismissed from the College of Medicine for poor scholarship.
- 4. No student is permitted to repeat the work of the Basic Science Core except upon majority vote of the Committee on Advancement. It is recommended that this be reserved primarily for students whose studies have been interrupted by acute illness, accident, or other extraordinary circumstance. It is further recommended that such student be considered an *additional* member of the succeeding class.

B. CLINICAL SCIENCE CORE

- 1. Students who have satisfactorily completed the work of the Clinical Science Core will be advanced to the Senior Major Program by the Committee on Advancement.
- 2. A student failing one of the Clinical Science Core subjects may, on majority vote of the Committee on Advancement, be permitted to continue with his class, delaying entry into the Senior Major Program

until he has met the requirements of the Department concerned. Failure to meet these requirements will result in dismissal from the College of Medicine for poor scholarship.

3. A student failing two or more Clinical Science Core subjects will be dismissed from the College of Medicine for poor scholarship.
4. No student is permitted to repeat the work of the Clinical Science Core except upon majority vote of the Committee on Advancement. It is recommended that this be reserved primarily for students whose studies have been interrupted by acute illness, accident or other extraordinary circumstance. It is further recommended that such student be considered an *additional* member of the succeeding class.

C. SENIOR MAJOR PROGRAM

1. The degree Doctor of Medicine is granted by the Board of Trustees of the University of Vermont to candidates only upon recommendation of the Committee on Advancement and Faculty of the College of Medicine to the University Senate. The Committee on Advancement will initiate these recommendations for all students who satisfactorily complete the Senior Major Program.
 - i) A student who is dismissed by reason of poor scholarship shall be notified in writing of his dismissal by the Dean of the College of Medicine. Upon written request presented to the Dean of the College of Medicine within ten (10) days of receipt of notification of dismissal, a student shall be entitled to personally appear before the Advancement Committee which shall then review its dismissal action.

D. DISMISSAL

The Faculty may dismiss at any time a student whom they consider to be unfit for a career in medicine. In the event a student's fitness for a career in medicine comes into question for other than poor scholarship, the Dean of the College of Medicine shall appoint an Ad Hoc Committee whose duty it shall be to fully investigate and report to the Faculty its findings and recommendations. In the course of this investigation, the Committee shall send written notification to the student's last local address advising him of the investigation and the reasons therefor. He shall also be advised that he has the opportunity, if he so requests, to personally appear before the Committee and present any information he desires relative to the matter under investigation.

Upon receipt of the Committee's findings and recommendations, the Faculty shall determine by majority vote whether or not the student is dis-

Fees and Expenses

missed from the College of Medicine. The Dean of the Medical College thereupon shall send written notification to the student's last local address advising him of the Faculty's decision.

E. ADVANCEMENT COMMITTEE

The Committee on Advancement shall consist of the Dean, Department and Division Chairmen or their designates and, as presiding officer, that member of the Office of the Dean responsible for student affairs.

The Committee on Advancement shall be responsible for all matters concerning student advancement and dismissal, and shall review the academic performance of each student at regular intervals. In its procedures and actions the Committee will be governed by the Rules and Regulations of the Faculty of the College of Medicine.

Correct English usage is demanded by all departments in the University. Written work of any kind which is unsatisfactory in manuscript form, grammar, punctuation, spelling, or effectiveness of expression may be penalized regardless of content. Students whose written work falls below the standard of correct usage may be remanded to the English Department for additional instruction even though the freshman course in English has been passed.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must be of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of the four courses of instruction. Students must have discharged all current indebtedness to the University.

The degree of Doctor of Medicine is granted by the Board of Trustees of The University of Vermont to candidates only upon recommendation of the Committee on Advancement and the Faculty of the College of Medicine to the University Senate.

All candidates for degrees must be present at Commencement unless excused by the Dean of the College.

Fees and Expenses

Application fee	10.00
Deposit fee	100.00
Required of all non-residents admitted to the entering class, and applicable toward tuition	

Tuition	750.00
For Vermont residents and bona fide residents of other states having contractual arrangements entitling them to resident tuition rates.	
For non-residents	2,200.00
Athletic fee	30.00
Medical Student Activity fee	10.00
Locker key deposit (refundable end of year)	2.00
Books and supplies (estimated)	250.00
Microscope rental required: 1st year	40.00
2nd year, 1st semester	20.00
Health Fee	40.00
	Average
Room rent	720.00
Board	705.00

A complete supply of medical textbooks, outlines, student supplies and equipment is available at the University Bookstore.

In the event of withdrawal from college, refunds are made as follows: During the first week of any semester the full tuition is refunded. Thereafter 20 percent of the tuition is deducted for each week that has elapsed. Students temporarily absent from the University are charged as if present.

A student who has been dropped into a lower class because of deficiency in his work, or for other reason, will be required to pay his bills for the additional year or years in which he may be in attendance at the University.

HOUSING

The University does not have housing available for medical students, but the Housing Office located at 633 Main St. on the University campus will be pleased to try to assist medical and other students in locating suitable housing.

DINING SERVICE

Any medical students who wish to do so may purchase contracts to take their meals in one of the University dining halls, or may purchase meals singly in the dining halls by paying the guest rate.

Scholarships and Loan Funds

DR. ELLICE M. ALGER SCHOLARSHIP FUND Established 1967 to aid worthy and needy medical students.

MOSES D. CARBÉE, Class of 1873 Established by a bequest from Mrs. Mary D. Carbee in memory of her husband; available for medical students.

GROVER C. EMERY Established by bequest in 1968 for students in College of Medicine who are residents from State of Maine or a premedical student from State of Maine.

JOHN W. AND JOHN SEELEY ESTABROOK Established by bequest in 1956; for students in the College of Medicine from Rutland County, preference being given to students from Brandon.

HEALTH PROFESSIONS SCHOLARSHIPS Established by the Health Professions Educational Assistance Amendments Act of 1965. Available only to those students from low income families who demonstrate exceptional financial need.

DR. EDWARD EVERETT HAWES Established by bequest in 1946; available for medical students.

EDITH BLANCHE KIDDER Established by Joseph W. Kidder for students in the College of Medicine; preference to be given to legal residents of Barre.

ALDO J. LEANI, M.D., Class of 1934, established in 1961 for students in the College of Medicine.

NEW YORK LIFE INSURANCE COMPANY SCHOLARSHIP Established in 1966 for students in College of Medicine.

JOHN ORDRONAUX Founded in 1909; for students in the Academic and Medical Colleges.

HORTENSE A. QUIMBY Established by bequest in 1968; income to be used to provide scholarships to medical students with preference being given to students from Essex County, Vermont.

PETER J. SHAMMON SCHOLARSHIP FUND Established in 1967 as a memorial to Mrs. Marian Shammon.

DR. H. C. TINKHAM Established by bequest in 1956; for students in the College of Medicine.

CENTURY CLUB SCHOLARSHIPS of the Alumni Association of The University of Vermont College of Medicine were established in 1965. Awards are made to deserving students who are not residents of Maine, New Hampshire, Vermont, Massachusetts or Rhode Island.

Loan Funds

MOSES DYER CARBEE, M.D., Class of 1873 Established by Mrs. May D. Carbee in memory of her husband for students of the College of Medicine.

DR. THOMAS HARMAN DENNE MEMORIAL LOAN FUND Established in 1963 by relatives and friends of the late Dr. Thomas H. Denne,

Class of 1905, the income to be used for deserving students in the College of Medicine.

HEALTH PROFESSIONS STUDENT LOANS Long term loans to be repaid after completion of Medical School.

G. STEDMAN HUARD MEDICAL STUDENT LOAN FUND Established by G. Stedman Huard, M.D., Class of 1946, for aid to senior medical students who are Vermont residents, preference to be given to Winooski residents.

KELLOGG FOUNDATION LOAN FUND Medical students.

DR. JOSEPH E. LUMBARD Established in 1946 by the gift of Mr. J. Edward Lumbard, Jr., for students in the College of Medicine.

MEDICAL STUDENT LOAN FUND Established in 1933 by Medical College alumni for students in the College of Medicine.

ELIZABETH D. AND CLIFFORD R. PROCTOR Established in 1953 for students in the College of Medicine.

QUARTER-OF-A-CENTURY LOAN FUND A loan fund for medical students established by the Class of 1938 and added to by the following 25-year classes.

JAMES A. SINGISER MEDICAL STUDENT LOAN FUND Established by James A. Singiser, M.D., to aid needy medical students.

UNIVERSITY OF VERMONT MEDICAL SCHOOL LOAN FUND For medical students from New Hampshire, established in 1963 by Dr. Thomas R. Plowright.

MRS. HAROLD T. WHITE MEDICAL STUDENT LOAN FUND Preference given to medical students.

AMERICAN MEDICAL ASSOCIATION established the Medical Education Loan Guarantee Program whereby loans are available to medical students who are residents of the United States.

STUDENT AMERICAN MEDICAL ASSOCIATION EMERGENCY LOAN FUND Established in 1966. Certain special and endowed scholarships and funds, including the Wilbur Fund, are available to students of the College of Medicine. Application forms for scholarship and loan funds may be obtained from the Dean's Office and should be submitted by April 15 prior to September entrance.

STUDENT RESEARCH FELLOWSHIPS

The objective of the Student Research Fellowship Program is to enable interested students to participate in a research project with selected members of the faculty. Two types of experience are available.

Post-sophomore fellowships are offered to students who wish to take a year's leave of absence for advanced study in a basic science that may lead to a Master's degree. The stipend is \$2,600 for the year.

The Summer Student Fellowship Program is an elective course of study designed to introduce students to the disciplines of research. It is not restricted to students contemplating a career in medical research nor is the experience itself an apprenticeship to a faculty research endeavor. These fellowships are supported by grants and include a stipend of \$75.00 per week. The Summer Student Fellowship Program is coordinated through the Office of the Assistant Dean.

MEDICAL COLLEGE PROGRAM AND OBJECTIVES

Program and Objectives

In the fall of 1967 The University of Vermont College of Medicine inaugurated a new and dramatically different curriculum. This new curriculum was the result of five years of careful study and deliberation on the part of the entire faculty. The changes stemmed from recognition of the fact that patterns of medical practice are changing and that medical education must change accordingly.

In the past, virtually all physicians were in general practice. Today, there is still a need for the general practitioner or family physician. In addition, the increasing complexity of modern medicine has required the development of a large number of medical specialties. Physicians must also be trained as investigators and teachers. Some medical schools have attempted to train one type of physician, for example the teacher-investigator, while neglecting the education of the other types of physicians.

The University of Vermont has developed a curriculum suitable for the training of family physicians, medical specialists, and teacher-investigators. Obviously, the needs of these three groups are different and, therefore, in the new curriculum each student will select a course of study appropriate to his goals after receiving a general grounding in the basic sciences and medical practice.

GENERAL PLAN OF THE NEW CURRICULUM

The new curriculum consists of three parts: the basic science core, the clinical core, and the major program.

BASIC SCIENCE CORE

The forty-eight weeks of instruction in the basic science core spans the freshman year and fall semester of the sophomore year. During this period students are instructed in the basic sciences that undergird clinical medicine. Emphasis is placed on that body of knowledge common to all types of medical practice, avoiding the minute details relevant only to individual specialties. Comprehensive clinics, seminars in Behavioral Science and the elective faculty tutorial program provide for the first-year medical student clinical contacts, an awareness of social, cultural and psychologic factors affecting health and illness, and insight into the major issues influencing the practice of medicine.

Since the inauguration of the new curriculum several modifications have been made in the teaching of the Basic Science Core. The most important of these has been the increased emphasis on integrated teaching. In 1968 the teaching of Neuroanatomy and Neurophysiology was combined into the course in Neural Science. This course, in turn, has been further integrated with the teaching of Physiology during the present academic year. Similarly coordinated

Program and Objectives

teaching in Pathology, Pharmacology and Introduction to Clinical Disciplines has been achieved during the fourth period of the basic science core. These, and other modifications in the curriculum have resulted from student-faculty dialogue through the curriculum advisory committees on which students serve as full members.

CLINICAL SCIENCE CORE

The clinical core extends from January of the sophomore year until December of the junior year. During this twelve-month period students receive twelve weeks of clinical instruction in Medicine and Surgery and eight weeks in Obstetrics and Gynecology, Pediatrics and Psychiatry. Instruction is carried out at the Medical Center Hospital of Vermont and at the Vermont State Hospital in nearby Waterbury.

MAJOR PROGRAM

The Major Program extends from January of the junior year until graduation in May of the following year. This sixteen-month period is divided into ten rotations of approximately six weeks duration. The Major Program enables each student to select that course of study best suited to his career objectives. Majors are offered in each of the preclinical sciences and Medicine, Surgery, Obstetrics and Gynecology, Pediatrics, and the Neurological Sciences and Psychiatry.

Each major includes a limited number of required clinical and/or laboratory experiences as well as elective rotations. These electives are not restricted to the discipline in which the student is majoring and may include experiences in approved programs outside of Burlington. Each of these programs has sufficient flexibility to meet the interests and goals of each student. During the 1969-70 academic year, for instance, students with career goals in family practice selected major programs in Medicine, Pediatrics and Surgery, while those with future careers in Psychiatry selected major programs in Medicine and Neurological Sciences and Psychiatry, and so forth. A system of faculty advisors has been developed to counsel each student on a one-to-one basis throughout the planning and course of his major program.

Although the majority of students elect a clinical major, students so desiring may commit the full Major Program to study in the preclinical sciences. While these programs are individualized, it is expected that graduate study, research and a thesis will form the basis for each. Qualified students may enroll in the Graduate College as candidates for the Master of Science degree while fulfilling the requirements of the M.D. degree within the Major Program.

GRADUATE MEDICAL EDUCATION

Reflecting the relationship between the Medical Center Hospital of Vermont and the University, the fifteen Chiefs of Service who direct the graduate medical education programs at the Medical Center Hospital are the Department and Section Chairmen of the corresponding specialties at the College of Medicine. These chairmen, with representatives from the Dean's Office of the College of Medicine, and administrative offices from the Medical Center Hospital and University of Vermont constitute the Graduate Medical Education Committee, which oversees graduate medical education at the Medical Center Hospital.

The University of Vermont College of Medicine and the Medical Center Hospital of Vermont offer internship programs in Medicine, Pathology, Pediatrics, and Surgery. Each is the responsibility of the appropriate department chairman; each has the flexibility to complement the varying undergraduate backgrounds of its candidates; each is integrated with its corresponding residency program.

Residency programs are offered in Anesthesiology, Internal Medicine, Neurological Surgery, Neurology, Obstetrics and Gynecology, Orthopedic Surgery, Otolaryngology, Pathology, Pediatrics, Psychiatry, Radiology, Rehabilitation Medicine, Surgery, Thoracic and Cardiac Surgery, and Urology. A residency in Family Practice has been established as a track in the medical residency program.

RESEARCH

The primary responsibility of the College of Medicine is the teaching of well-qualified men and women the science and art of medicine. This teaching cannot go on, however, isolated from the progress being made in expanding medical knowledge, techniques, equipment. Thus many faculty members of the College of Medicine, often working with faculty or other colleges of the University, are engaged in a wide-ranging number of research projects supported by private and federal grants.

Program and Objectives

BASIC SCIENCE CORE

FIRST PERIOD HOUR PLAN—Fall 1971—14 Weeks

Class of 1975

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00- 9:00	Biochemistry	Biochemistry	¹	Biochemistry	Biochemistry
9:00-10:00	Gross	Gross	Biostatistics	Gross	Gross
10:00-11:00	Anatomy	Anatomy	Microscopic*	Anatomy	Anatomy
11:00-12:00			Anatomy		
12:00					
1:00- 2:00	Microscopic Anatomy Section A		Microscopic Anatomy Section B		Behavioral Science
2:00- 3:00					
3:00- 4:00	Microscopic Anatomy Section B		Microscopic Anatomy Section A		Microscopic Anatomy
4:00- 5:00					

¹ Through Nov. 3

* Comprehensive Clinic Sept. 15
Oct. 13
Nov. 10
Dec. 8

BASIC SCIENCE CORE

SECOND PERIOD HOUR PLAN—Winter 1972—10 Weeks

Class of 1975

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00- 9:00	Biochemistry	Biochemistry	Neural Science & Physiology	Biochemistry	Biochemistry
9:00-10:00	Neural Science & Physiology	Neural Science & Physiology	Neural Science*	Neural Science & Physiology	Behavioral Science
10:00-11:00			& Physiology		
11:00-12:00					
12:00					
1:00- 2:00	Biochemistry		Biochemistry		Neural Science and Physiology
2:00- 3:00	Neural Science and Physiology		Neural Science & Physiology		
3:00- 4:00					
4:00- 5:00					

* Comprehensive Clinic Jan. 12
Feb. 9
Mar. 8

BASIC SCIENCE CORE

THIRD PERIOD HOUR PLAN—Spring 1972—10 Weeks

Class of 1975

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00- 9:00	Microbiology	Microbiology	Microbiology	Microbiology	Microbiology
9:00-10:00	Pathology	Pathology	Pathology	Comm. Med.	Comm. Med.
10:00-11:00		Comm. Med.		Pathology	
11:00-12:00	Genetics*		Genetics*		Genetics*
12:00					
1:00- 2:00	Microbiology Lab		Microbiology Lab		Microbiology Lab
2:00- 3:00					
3:00- 4:00					
4:00- 5:00					

* Genetics, Through May 12

BASIC SCIENCE CORE

FOURTH PERIOD HOUR PLAN—Fall 1971—14 Weeks

Class of 1974

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00- 9:00	Pharmacology	Pharmacology	Pharmacology	Pharmacology	Pharmacology
9:00-10:00	Pathology	Pathology Intro * to Clinical Disciplines	Pathology	Pathology	Pathology
10:00-11:00					
11:00-12:00					
12:00					
1:00- 2:00	Pharmacology Section A	Pharmacology Section B	Psychopathology	Introduction To Clinical Disciplines	Psychopathology
2:00- 3:00			Introduction to Clinical Disciplines		Introduction to Clinical Disciplines
3:00- 4:00					
4:00- 5:00					

* Alternate weeks

Teaching Facilities

In 1968 the third phase of a 12-million dollar expansion program was dedicated, completing a decade of planning and construction accomplished through alumni support, private philanthropy and federal funds. Thus for the first time the teaching and research activities of the College of Medicine have been brought together under one roof.

First to be completed in this ambitious program was the Medical Alumni Building. Dedicated in 1959, this structure was named to honor the loyalty of the medical alumni whose vision and support provided the impetus for the building program.

The Medical Alumni Building is linked to the Given Medical Building by the two-storied Charles A. Dana Medical Library. This air-conditioned facility provides eight times the area of the old library, more than triples the book capacity and contains carrels for individual study, as well as comfortable and spacious reading rooms. The Library is open seven days a week until 1:00 a.m.

Largest of the three buildings is the Given Medical Building. Its 236,000 square feet contain the majority of the teaching and research space for the College of Medicine. This unit also contains the 280-seat Carpenter Auditorium, student lounge, administrative offices and cafeteria.

In August, 1970, ground was broken for the \$3.2 million Nursing and Allied Health Sciences Building. This Facility connected to the Given Medical Building will provide approximately 70,000 square feet of classroom and office space in support of the University of Vermont's expanding program in nursing and allied health sciences.

HOSPITAL

THE MEDICAL CENTER HOSPITAL OF VERMONT, INC.

For a medical school, the teaching hospital is the keystone that supports the clinical education of the medical student and graduate physician alike. Here the opportunity exists to observe and participate in the care of the sick under the mentorship of those who exemplify the highest skills in the science and art of medicine.

The two former teaching hospitals of the University of Vermont College of Medicine, the DeGoesbriand Memorial and the Mary Fletcher, have legally merged to form the Medical Center Hospital of Vermont. This brought into existence in Burlington one of the larger and more comprehensive general hospitals in New England.

The role of the Medical Center Hospital is unique in the northern New England region. Not only is it the teaching hospital of the University of Vermont College of Medicine and a referral center for upstate New York, northern

Vermont and New Hampshire, but it is also the major community hospital for the 80,000 inhabitants of the Greater Burlington Area. A balance exists, therefore, between patients with complicated and rare diseases and those with diseases that are prevalent in any community; a balance that provides every intern and resident at the Medical Center Hospital with medical experiences in breadth as well as depth.

Each year more than 20,100 patients are discharged, over 24,500 clinic visits made, and nearly 35,200 patients are treated in the emergency rooms of the Medical Center Hospital. Expansion of facilities in 1968 increased the bed capacity to 750, growth that has been matched by expanding capabilities in all medical services and in clinical research. All of the two hundred physicians on the attending staff hold faculty appointments at the University of Vermont College of Medicine.

Besides medical teaching, educational programs are conducted in nursing, x-ray technology, laboratory technology, social service, hospital administration and physical therapy. Special facilities are available such as a cinefluoroscopy unit in Radiology, a cardiopulmonary laboratory performing cardiac catheterizations as well as routine heart and lung studies, a radio-isotope laboratory, and deep therapy treatment by means of cobalt and linear generator. Research is an important part of the medical center program.

OFFICE OF INSTRUCTIONAL RESOURCES

Director Robert B. Lorenz, Ph.D.; Instructional Television Specialist Mary P. Mather, M.S.

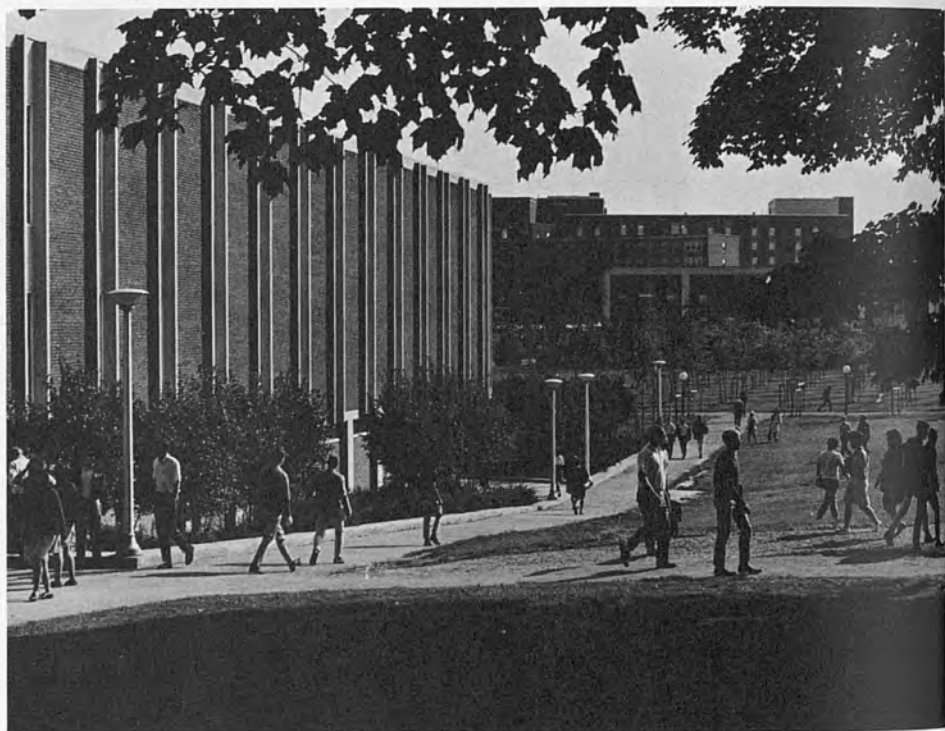
This group assists the faculty in the improvement of instruction through the development, selection and use of instructional media. Instructional television services are coordinated by this office. Audiotutorial equipment to support independent student learning through audio tapes, still color illustrations, and film loops have been placed in the Medical Library and one departmental laboratory. The Office of Instructional Resources coordinates the design and production of materials for the audiotutorial learning environments. These services, in addition to the planning of media and information about commercially available instructional materials, are available to the faculty of the Division of Health Sciences.

MEDICAL PHOTOGRAPHY

Director Francis C. Mallory, R.B.P.; Medical Photographer Wing M. Woon; Assistant Photographer Peter C. Huber; Medical Illustrator Gary J. Nelson.

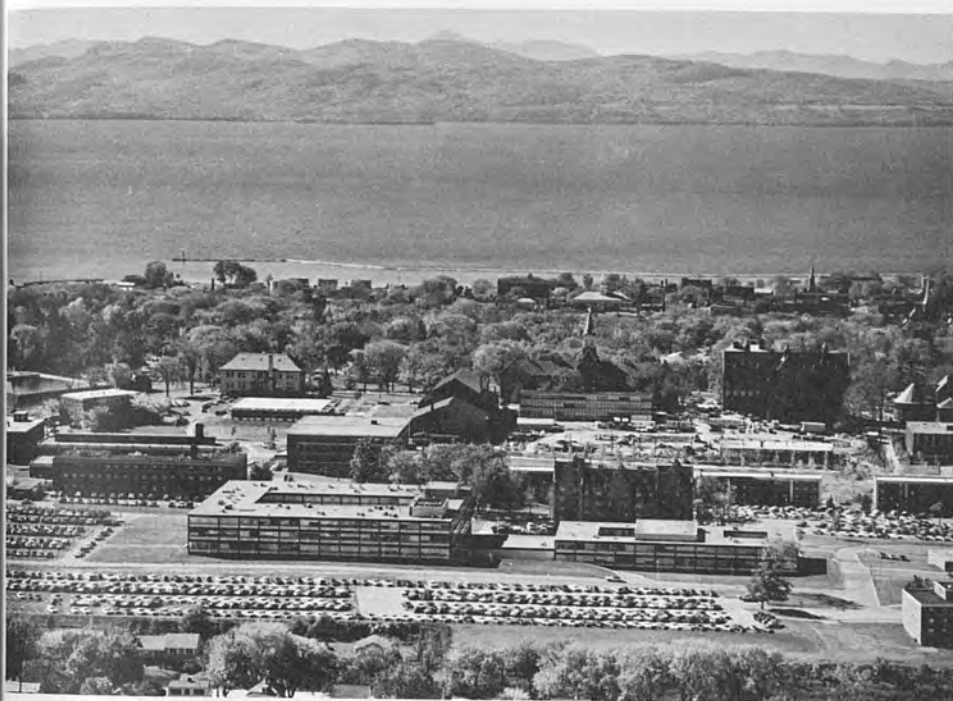
Medical Photography has a full-time staff whose services are available to all Departments for patient photography, photomicrography, medical illustration, teaching aids, and movies, in both black and white and color. This unit is a part of the Office of Instructional Resources.

Teaching Facilities



Classroom break on University of Vermont campus; Votey Engineering Hall at left, Mary Fletcher unit of Medical Center Hospital of Vermont in background.

THE DEPARTMENTS IN THE COLLEGE OF MEDICINE



Aerial view looking west from the campus across Lake Champlain to the Adirondack Mountains.

The Department of Anatomy

Chairman: William J. Young, II, Ph.D., Thayer Professor of Anatomy. Professors Dunihue, Newhall (Emeritus), and Young; Associate Professors Ring (Radiologic Anatomy) and Wells; Assistant Professors Freedman, Iorio, Weidman, and Emma F. Wennberg; Demonstrator Boushey.

First-year courses for medical students are given in gross anatomy, histology (including embryology), neuroscience and genetics.

BASIC SCIENCE CORE

GROSS ANATOMY. The core course in Gross Anatomy is designed to give the student a grasp of the fundamental principles of organization of the human body, together with the relevant, selected detail. General dissection of the entire body is carried out by the students. Prosections are done for all regions of the body, and those areas requiring time-consuming and difficult dissections are covered by demonstration of prosected material. Models, cross sections, skeletal material, charts, and movies are utilized throughout the course. Radiological anatomy of all regions is presented, and appropriate clinical departments correlate the gross anatomy of a given region with clinical problems by lectures, visual aids, and presentation of patients. Two hours of lecture and ten hours of laboratory weekly during the first trimester.

HISTOLOGY. The aim of the course in histology is to help the student acquire useful and meaningful concepts of cell and tissue morphology and the structural organization of selected organs; an appreciation of structure as the locus of function; and an introduction to the methodology of histologic examination of tissues. Histochemistry and electron microscopy are emphasized when they illuminate structural and functional concepts. Six hours of lecture and laboratory each week during the first trimester.

NEUROSCIENCE. The core course in neuroscience outlines morphological and physiological features of the neuron and the central nervous system. The functional significance of structure is emphasized throughout, in order to prepare the student for intelligent diagnosis and localization of neural disorders in the clinical sciences. The course is offered in the second trimester.

GENETICS. The principles of genetic analysis, and of gene and chromosome structure, function and transmission are examined in twenty lectures in the third trimester. The consequences of altered gene function are illustrated in appropriate clinical examples. Drs. W. J. Young; R. J. McKay and W. E. Hodgkin (Pediatrics); and D. S. Newcombe (Medicine).

MAJOR PROGRAM

The Department of Anatomy, in cooperation with interested clinical departments, will offer, in addition to Graduate College courses, advanced and revision opportunities in pertinent aspects of neuro-anatomy, surgical anatomy, and histology.

GRADUATE COLLEGE COURSES

Graduate courses and opportunities for research are available to interested medical and graduate students. Programs in the Anatomy Department can lead to the degree of Master of Science or Doctor of Philosophy. Participation in such degree programs is conducted under the regulations of the Graduate College and requires the approval of the Department and the College of Medicine.

PREREQUISITE—Permission of the Department Chairman.

202 ELECTRON MICROSCOPY. A methodology course designed to provide basic knowledge of and experience with the techniques of electron microscopy and interpretation of electron micrographs. Three credit hours.

301 GROSS ANATOMY. The course as given to medical students. Study of the gross structure of the human body by means of general dissection, cross-sections, special dissection, and demonstrations. Six credit hours.

302 NEUROSCIENCE. A correlated presentation of the neuroanatomy and neurophysiology of the mammalian central nervous system. The course will consist of lectures, demonstrations and laboratory. The laboratory consists of both microscopic examination of the nervous system and gross dissection of the human brain. Clinical presentation of patients with neurological deficits when appropriate. Same course as Physiology 302. Four credit hours.

311 MEDICAL HISTOLOGY. The regular medical course. Microscopic study of cells, tissues and organs using routine techniques. Three credit hours.

323 NEUROENDOCRINOLOGY. A consideration of the diencephalic regulation of hormonal activity. Initial lectures will cover morphological features of the hypothalamus and hypothalamo-hypophyseal pathways. The major portion of the course will be devoted to hypothalamic mechanisms controlling each principal pituitary hormone. These topics will be covered in a brief lecture followed by a discussion based upon text and journal assignments. Two credit hours.

324 ADVANCED NEUROANATOMY. A detailed analysis of the morphology of the nervous system is presented through lectures and laboratory. A regional approach to the anatomy is supplemented by units on develop-

The Department of Anatomy

ment, blood supply, and the autonomic nervous system. Laboratory exercises will consist of brain dissection and microscopic examination of brain stem sections. Three credit hours.

325 CEREBRAL CORTEX. Selected aspects of the morphology and physiology of the cerebral cortex will be presented by lectures and discussions of assigned reading. Thalamo-cortical systems, cytology, cytoarchitecture, development, functional localization, and neurochemical observations are some of the topics to be examined. Two credit hours.

341, 342 SPECIAL DISSECTIONS IN GROSS ANATOMY. Special dissections of particular regions of the human body, utilizing either adult or fetal material. Credit as arranged.

351, 352 SPECIAL TECHNIQUES IN HISTOLOGY. A study of selected cells, tissues or organs by means of special techniques. Specific work as agreed upon. Credit as arranged.

374 CYTOGENETICS. The structure and function of chromosomes and associated organelles (centriole, spindle, nucleolus) will be analyzed by critical review of the current literature. The seminar will include the pertinent observations in human somatic and meiotic cells, as well as in selected plant and animal species. Two credit hours.

381 through 389 SEMINARS IN ANATOMY. Critical review of the literature in various areas of the anatomical sciences. Credit as arranged.

382 HISTOPHYSIOLOGY OF THE HEMATOPOIETIC TISSUES. Seminar discussions of pertinent literature on the functional morphology of the hematopoietic tissues under normal and certain abnormal conditions.

The latter are selected to illustrate altered or heightened normal activities. Where available, relevant histological and electron microscopic materials will be demonstrated. Two credit hours.

384 SEMINAR IN CELLULAR FINE STRUCTURE. Seminar discussions of current concepts of the fine structure of cell organelles and of their functions and modifications as revealed by electron microscopy. Two credit hours.

391 through 393 MASTER'S THESIS RESEARCH. Investigation of a research topic under the direction of an assigned staff member, designed to culminate in an acceptable Master's thesis. Credit as arranged.

491 through 493 DOCTORAL THESIS RESEARCH. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.

The Department of Biochemistry

Chairman: Donald B. Melville, Ph.D. Professor Melville; Associate Professors Gjessing, Lamden, Meyer, Schein, and Woodworth; Associate Professor (Clinical) E. A. H. Sims; Assistant Professors Hart, Schofield, Thanassi, Willard, and Wuthier; Instructor Ishikawa; Instructor (Clinical) Kunin.

The primary objective of the teaching program is to impart a knowledge of fundamental biochemistry which will permit an understanding of present applications and future developments in relation to medicine. In order to provide the biochemical information needed by other basic sciences, biochemistry is offered at the beginning of the first year. Emphasis is placed on fundamental biochemical principles, and applications to medicine are introduced whenever feasible.

Members of the Department are also available for participation in other courses in the medical curriculum when the subject matter is related to biochemistry.

BASIC SCIENCE CORE

MEDICAL BIOCHEMISTRY. Lectures, conferences, and assigned reading in biochemistry, particularly as it relates to medicine. The first part of the course stresses the area of molecular biochemistry: chemistry, structure, and metabolism of proteins, amino acids, carbohydrates, lipids, and nucleic acids, and the properties and functions of enzymes. The second part is concerned with the biochemistry of the whole organism, with special reference to man: respiration, hemoglobin, iron metabolism, and plasma proteins; acid-base balance and mineral metabolism; vitamins; hormones and control mechanisms.

GRADUATE COLLEGE COURSES

Opportunities exist for additional training in both the theoretical and practical aspects of biochemistry. Graduate courses offered by the Department as part of its Ph.D. program are available to qualified medical students as part of their elective program. Participation in the research activities of the Department is possible as an elective and also during the summer. Subject to the approval of the Department and to the regulations of the Graduate College, it is possible for qualified students to apply credit obtained in graduate courses and research toward an M.S. degree in biochemistry.

PREREQUISITE—Permission of the Department Chairman.

301-302 BIOCHEMISTRY. Lectures, conferences and assigned reading in the areas of molecular biochemistry and biochemistry of the whole organism, with special reference to man. Topics include the chemistry, structure, metabolism and function of proteins, amino acids, carbohydrates, lipids, and nucleic acids; enzymes and bioenergetics; respiration, hemoglobin, plasma proteins, and

The Department of Biochemistry

iron metabolism; acid-base balance, water balance, and mineral metabolism; vitamins; hormones and control mechanisms. Four credit hours per semester.

303 BIOCHEMISTRY LABORATORY. Experimental work designed to demonstrate important principles and to illustrate methods and techniques of modern biochemistry. Five credit hours.

311, 312 BIOCHEMICAL PREPARATIONS. Isolation, synthesis, and characterization of compounds of biochemical interest. Two credit hours per semester.

320 GENERAL ENZYMOLOGY. A general consideration of enzyme nomenclature, purification, assay, introductory kinetics, mechanisms, cofactors, active sites, and the relationship of enzyme structure to the biological control of activity. Two credit hours.

321 ENZYME KINETICS AND MECHANISMS. Topics include kinetics, specificity, inhibitors, enzyme-substrate interactions, and their relation to enzyme structure. Two credit hours.

331 NUCLEIC ACIDS. The structure, metabolism, and function of ribonucleic acids and deoxyribonucleic acids. Two credit hours.

340 ORGANIC BIOCHEMISTRY. Organic reaction mechanisms as related to substances of biochemical interest, with emphasis on catalytic mechanisms. Two credit hours.

371 PHYSICAL BIOCHEMISTRY. Protein interaction solubility and fractionation, electrophoresis, sedimentation, phase rule study, diffusion, viscosity, spectrophotometry, and related subjects. Two credit hours.

381 SEMINAR. Discussions of recent developments and current literature in the various fields of biochemistry. One hour per week.

391 MASTER'S THESIS RESEARCH. Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 DOCTORAL THESIS RESEARCH. Original research under the direction of a staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.

The Department of Community Medicine

Chairman: Charles S. Houston, M.D. Professors Houston, Mabry, Waller and Weed; Associate Professors Aiken, F. L. Babbott, Golodetz, D. B. Hill, Tormey; Assistant Professors Brusis, Lamborn, Miller, Schultz, Sylwester, and Whorton; Instructors (Clinical) D. H. Brown, Friedman, D. H. Gray, Lantman, J. C. Twitchell and Walsh.

The Department of Community Medicine offers students information, principles and experience which will help them fulfill their future responsibilities as practitioners and knowledgeable citizens. The Department shares with the clinical departments a strong concern for the whole patient, and offers a variety of courses and programs directed toward this end throughout the four years of medical school. Research activities include studies of unintentional injury, consumer protection, biometry and aspects of health services delivery and evaluation. The Department is also involved in health service planning, both for Vermont and elsewhere, and in environmental health research and protection.

BASIC SCIENCE CORE

COMMUNITY MEDICINE. During the spring of the first year an introductory course in Community Medicine is offered. This includes a consideration of social science in medicine, environmental health problems, community health services, and the application of epidemiologic techniques to selected infectious and non-infectious diseases. Students in small groups participate in the identification and solution of selected community health problems. 40 hours.

MEDICAL STATISTICS. This course provides practical instruction in the principles, logic and techniques of statistics as applied to everyday problems in medicine. It includes consideration of random sampling, frequency distribution, probability and significance testing, as well as the place of computerized data processing in medical record keeping and research. First semester, 18 hours.

COMPREHENSIVE CLINICS. Seven monthly comprehensive clinics are held during the first year. Their purpose is the early introduction of students to the application of basic sciences, clinical management of patients and the broader social or community implications of human disease. These clinics are sponsored by the Department of Community Medicine, but include participation of other appropriate departments.

BASIC SCIENCE CORE ELECTIVES. A ten-hour elective course is offered in drug abuse, including participation in a Drug Crisis Center. The community problem assignment can be extended into a stipend supported summer fellowship for selected students. Individual opportunities for research in injury control, health service planning and data collection are available.

The Department of Community Medicine

CLINICAL SCIENCE CORE

HEALTH CARE SEMINARS. While on their rotation in the Department of Medicine, students meet once a week in small groups to review broad issues such as medical care costs, appropriate use of community health and welfare agencies, the role of allied health personnel, etc. The seminars are informal and the topics largely selected by the students.

SENIOR ELECTIVE PROGRAM

The Department does not offer a prestructured senior major program as such. Instead every attempt is made to match individual student interests and goals with a varied assortment of work-study options. These include (a) family practice preceptorships with individual physicians or medical groups, (b) community hospital externships, (c) evaluation of medical care needs and quality of care, (d) health planning for communities, (e) delivery of health services to deprived populations, and (f) experience in international health, and environmental problem solving.

GRADUATE COLLEGE COURSES

The following elective graduate courses are offered by this Department.

PREREQUISITE—Permission of the Instructors.

300 MEDICAL SOCIOLOGY. Advanced seminar. First semester, 3 credit hours.

305, 306 MEDICAL SOCIOLOGY. Individual study. By arrangement, 1-3 credit hours.

The Department of Medical Microbiology

Chairman: Warren R. Stinebring, Ph.D. Professors Johnstone, Merchant and Stinebring; Associate Professors B. R. Forsyth, C. A. Phillips and A. Smith; Assistant Professors Absher, Boraker, Gallagher, Gump, T. J. Moehring, Novotny and Schaeffer.

The Department of Medical Microbiology, through its teaching program for undergraduate medical students and graduate students, and through the research activities of its members, both faculty and departmental medical or graduate students, proposes to provide training in fundamentals of pathogenic microbiology needed by all students (medical or graduate) of parasitism and training in advanced microbiology, needed by medical or graduate students who expect to undertake teaching or research in this field. Areas of special teaching competence or research interest include: host-parasite relationships at the organismic, cellular, and molecular levels, microbial genetics, immunology and immunogenetics, diagnostic bacteriology and virology, and cell, organ or tissue culture. Medical students, with permission, are encouraged to participate in any of these activities during free or elective time.

BASIC SCIENCE CORE

MEDICAL MICROBIOLOGY. The primary objective of this course is to present to students of medicine those aspects of microbiology which they as *physicians* will find of value. Mechanisms of pathogenesis, mechanisms of host resistance, specific agents causing diseases of viral, bacterial, fungal, and parasitic origin, are discussed with emphasis on the ecologic rather than taxonomic approach. Basic aspects, antibiosis and resistance development, autoimmune diseases and transplantation immunity, viral oncogenesis, "slow" virus infections are topics receiving special emphasis. Laboratory emphasis is on presentation of material which augments lecture material or illustrates how the laboratory can be an aid to the student of microbial disease rather than in developing the laboratory skills of the students.

GRADUATE COLLEGE COURSES

The Department offers programs of study leading to the Master of Science and Doctor of Philosophy degrees. Medical students may also participate in these programs.

PREREQUISITE—Permission of the Department Chairman.

203 THE MAMMALIAN CELL AS A MICROORGANISM. Discussion and laboratory work in problems of cell immortality, transformation, dedifferentiation, synchronization, cell-macromolecule interaction. Laboratory provides foundation in cell culture techniques. Four credit hours.

The Department of Medical Microbiology

211 GENETICS OF MICROORGANISMS. Studies of mutation, genetic information transfer, fine structure of the gene, cytoplasmic inheritance, and lysogeny in fungi, bacteria, and viruses. Three credit hours.

302 MEDICAL MICROBIOLOGY. Fundamentals of pathogenic microbiology with emphasis on mechanisms of disease production and mechanisms of resistance to infections. The ecologic rather than taxonomic approach is stressed. Four credit hours.

303 SPECIAL PROBLEMS IN MEDICAL MICROBIOLOGY. Supervised investigations in pathogenic microbiology. Credit as arranged.

322 IMMUNOLOGY. Discussion and demonstrations of theories of antibody formation, antigens, immunoglobulins, cellular immunity and hypersensitivity, problems of transplantation. Four credit hours.

330 VIROLOGY. Discussion and laboratory work in virology, with emphasis on animal viruses. Four credit hours.

340 MEDICAL MYCOLOGY. Discussion and laboratory studies of pathogenic fungi. Four credit hours.

381-389 SEMINAR. Current problems in medical microbiology. One credit hour.

391-393 MASTER'S THESIS RESEARCH. Supervised research leading to acceptable thesis. Credit as arranged.

491-493 DOCTORAL THESIS RESEARCH. Original research leading to acceptable doctoral dissertation. Credit as arranged.

The Department of Medicine

Chairman: William A. Tisdale, M.D.; *Associate Chairmen:* Sinclair T. Allen, Jr., M.D., and Ben R. Forsyth, M.D. Professors Allen, E. L. Amidon, Lepeschin, E. A. H. Sims, Tabakin, Tisdale, Lawrence Weed, and Wolf; Associate Professors Beeken, Bland, Bouchard, S. L. Burns, B. R. Forsyth, Gibson, Golodetz, G. M. Green, Hanson, Horton, Kelleher, Kunin, Levy, Newcombe, C. A. Phillips, Robinson, Tufo, and Welsh; Associate Professors (Clinical) Eddy, O'Brien, and Terrien; Assistant Professors Anderson, D. Babbott, Caldwell, Danforth, Dunn, Gump, Krawitt, Moynihan, Runge, Savel, Tannen, J. E. Wennberg, and Winters; Assistant Professors (Clinical) Alden, R. Amidon, A. Bergner, Fitzgerald, Gluck, Holden, E. E. Johnston, Lantman, Lipson, London, Martenis, Medivetsky, Milne, Mongeon, Ryder, Sawabini (Oral Hygiene Dental Medicine) Stouch, Twitchell, Van Buren, Laura Weed; Instructors (Clinical) D. Brown, L. C. Burns, Graveline, Hamrell, W. Jones, Levine, Massoneau, Park, W. A. Pratt, Ryan, Jos. Schultz, Seagle, Stanilonis, Uzsoy, Wainer, and Walker; Clinical Associates Colombo, Friedman, Heininger, Moisan, Saia, and Walsh; Postdoctoral Associate G. Powell; Research Associates Herrlich and Jan Schultz.

The Department of Medicine has as its three-fold mission scholarly instruction in the disciplines of clinical medicine and the comprehensive care of patients and the investigation of human disease.

Members of the Department have had advanced training in the broad field of internal medicine, and most have additional research or special clinical skills that provide balance and strength throughout the areas of departmental responsibility in hospitals, clinics and laboratories.

As attending or consulting staff physicians at the Medical Center Hospital of Vermont, members of the Department of Medicine provide daily patient care and bedside instruction and supervision for students, house staff, clinical trainees and other physicians. As clinical and laboratory investigators, they bring refined and quantitative methods to bear on problems of human disease, often working as units or teams in laboratory areas within the Medical School complex. Included within the Department of Medicine is the Section of Dermatology.

The many formal and informal departmental conferences, ranging from weekly Medical Grand Rounds to daily bedside rounds, are attended by students, house staff, senior staff and visiting physicians.

BASIC SCIENCE CORE

INTRODUCTION TO THE CLINICAL DISCIPLINES. This course is intended to be a bridge between the basic science core curriculum and the bedside. The primary purpose is to teach the student to elicit a history and per-

The Department of Medicine

form a physical examination with adequacy and sophistication. Equal in importance is the emphasis on correlation of anatomic, physiologic and biochemical data with clinical findings. It is desired that the student be able to use in a thoughtful way the simple laboratory investigations which are appropriate and required. Using such data, the student learns to construct a data base for each patient and to formulate problem lists. Emphasis is to be placed on practical teaching and supervision at the bedside with the use of illustrative cases.

CLINICAL SCIENCE CORE

CLINICAL CLERKSHIP IN MEDICINE. This consists of a 12-week period designed to provide maximum clinical experience in the hospital setting, with primary emphasis on ward work. The student is now able to apply the principles and methods learned in the core curriculum. The purpose of this clerkship is to involve the student directly in the day-to-day work of a medical unit in conjunction with careful and continuing supervision by attending physicians and house staff. He is encouraged to visualize the patient not as a pathologic process and disorder of function but rather as a social, environmental and psychological entity. He will attend weekly interdisciplinary conferences on common problems in medicine. He will also be encouraged to attend the regular subspecialty conferences and Grand Rounds.

MAJOR PROGRAM

MAJOR PROGRAM IN MEDICINE. The intent of the Major Program is to give the student an opportunity to obtain additional experience in the area of his intended career in medicine, whether this be as primary family physician, a practicing internist or an academic physician. The structure of the major period will be designed by the student and his faculty advisers. One portion consists of a review of applied basic sciences. The remainder consists of appropriate elective courses. These will be offered in general medicine, cardiology, respiratory disease, rheumatology, dermatology and allergy, hematology, neurology, metabolism, endocrinology, renal diseases, infectious diseases, oncology, gastroenterology and research methodology. The student will be encouraged to take part in a research project in any relevant field and write a thesis on the topic of his choice. In conjunction with the elective periods there will be considerable outpatient experience both in the general and subspecialty clinics and on other medical centers.

Section of Dermatology

Acting Chairman: Arthur H. Flower, Jr., M.D. Associate Professor (Clinical) Flower; Assistant Professor Madison; Instructor (Clinical) Dennison.

During the Introduction to the Clinical Disciplines course, the student becomes familiar with the methods of history taking and special studies which

are unique to this medical discipline, usually by means of case presentations that demonstrate typical primary, secondary and consecutive lesions of the skin.

Case presentations, informal student-instructor conferences and case-centered consultations serve to demonstrate the scientific and bedside aspects of dermatology to the student during his clerkship.

The senior student may elect periods of ambulatory dermatology experience, evaluating patients with skin diseases, discussing them in detail, and participating in their care with the attending dermatologist.



Lights from Bailey Library make interesting night pattern.

The Department of Neurology

Chairman: Charles M. Poser, M.D.; *Associate Chairman:* Herbert L. Martin, M.D. Professors Martin, Poser and Schumacher; Associate Professor Mavor; Assistant Professors Emery, Gomez, McKee and D. B. Smith.

The Department of Neurology provides instruction to undergraduate students in diseases of the nervous system and sponsors a graduate residency training program in Neurology at the affiliated hospital. Interns rotate through the neurological service, resident physicians assist in the instruction of students, and specialty conferences concerned with selected disorders of the nervous system are scheduled weekly. The staff consists of the Chairman and seven full-time clinical teachers and seven resident neurologists. The Department is concerned with primary and consultative patient care, clinical research, teaching at undergraduate and post-graduate levels and participation in clinics and regional hospitals as consultants.

BASIC SCIENCE CORE

In the context of the integrated course "Introduction to the Clinical Disciplines," members of the staff provide a brief review of neurophysiology, demonstrate and explain methods of neurological diagnosis, discuss ancillary laboratory techniques, and supervise student performances of bedside neurological examinations.

CLINICAL SCIENCE CORE

During the clinical clerkship on Medicine, the student is assigned for two weeks to the neurological service. Patients with nervous system disease are presented by students at a weekly neurological case presentation conference held for clinical clerks on the floors of the DeGoesbriand Unit of the Medical Center Hospital of Vermont.

MAJOR PROGRAM

Elective periods of research or clinical work in Neurology are available to senior students. In addition to adult neurology, clinical neurophysiology (electroencephalography and electromyography) and child neurology are available. Instruction in neurology is carried out on the inpatient Neurology Service and in the laboratories of the Department. Small groups of students are assigned to newly-admitted patients, obtaining complete neurologic histories and performing neurologic examinations. The students' diagnostic formulation and plan of management are reviewed by neurology house officers and staff. Students attend a number of the regularly scheduled didactic exercises and conferences which include neurology grand rounds, brain cutting sessions, neuroradiology review, joint sessions with neurosurgery and Journal Club, as well as other related specialty conferences when held.

The Department of Obstetrics and Gynecology

Chairman: John Van S. Maeck, M.D.; *Associate Chairman:* Herbert A. Durfee, Jr., M.D. Professors Durfee, Maeck and Slavin; Professor (Clinical) Solomon (Endocrinology); Associate Professors Boardman, Eastman and Mary J. Gray; Associate Professor (Clinical) Burchell; Assistant Professors Braun, Clapp, Lewis, Meeker and W. F. Sims; Assistant Professors (Clinical) Cannon, Russo, Taber and W. Thabault; Instructors (Clinical) R. E. Davis, Granai, R. E. Murphy, and Romeyn; Instructors (Nurse Midwifery) J. A. Morgan and V. C. Rudwick.

BASIC SCIENCE CORE

Members of the Clinical Faculty of Obstetrics and Gynecology in association with the Basic Science Faculty present appropriate clinically oriented material in anatomy, pathology, introduction to clinical medicine, community medicine seminars, etc.

CLINICAL SCIENCE CORE

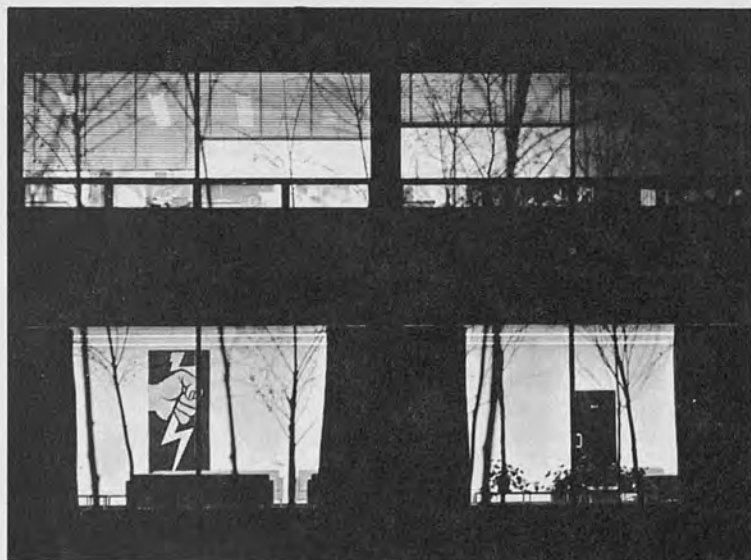
The Clinical Core Program in Obstetrics and Gynecology consists of 8 weeks of intensive academic and practical experience in the classroom and the hospital. Emphasis is placed on the fundamentals of female reproduction, understanding psycho-sexual problems, the physiology, pathology and therapy of obstetric and gynecologic problems commonly met by physicians in many branches of medicine. In keeping with the philosophy of the Core Program, the detailed technique of delivery room and operating room procedure is not stressed. It is deemed important, however, to expose each medical student to the birth process and to ensure an understanding of reproductive physiology and its implications to medicine and society. The students rotate through: labor, delivery and postpartum areas; gynecology and the operating room; outpatient department and private preceptorship. The clinical experience is supplemented by frequent small group tutorial sessions with a faculty member, resident teaching seminars, Obs-Gyn radiology review, literature review, grand rounds and staff meetings.

At the end of his experience in the Obs-Gyn Core Program, it is expected that in addition to being able to take a general medical history and perform a general physical examination, the student will be able to diagnose pregnancy, adequately examine the breast, pelvis, rectum, and will have acquired the necessary skill to perform simple diagnostic tests such as the proper collection of material for cytologic smear and for the detection of gynecologic infection. He will have developed the ability to cope intelligently with this data and to relate clinical observations to the basic sciences and to integrate information relevant to the sexual reproductive system with information relative to the general medical, psycho-sexual and economic status of the patient.

The Department of Obstetrics and Gynecology

SENIOR MAJOR PROGRAM

The Department of Obstetrics and Gynecology offers a Senior Major Program for those interested in a career in Obs-Gyn, Family Medicine or related areas. Each student will take a 6-week basic science review course oriented towards Obs-Gyn plus 6 weeks each in obstetrics, gynecology and clinical medicine. The remainder of the program is elective according to the needs of the individual student. Clerkships in obstetrics, gynecology, obstetrics-gynecology for the family physician and extramural programs in Obs-Gyn are offered to students in other Senior Major Programs.



Night scene across courtyard of Given Medical Building.

The Department of Ophthalmology

Chairman: John C. Cunningham, M.D., Shipman Professor of Ophthalmology. Professor Cunningham; Associate Professor (Clinical) Irwin; Assistant Professors (Clinical) Guiduli and Kleh.

CLINICAL SCIENCE CORE

The Department of Ophthalmology and the Section of Otolaryngology participate in the course on Introduction to Clinical Disciplines in the second year.

In the third year each student is assigned to clinical work in the Department of Ophthalmology, involving outpatient care, hospital rounds and procedures, conferences, intensive individual instruction and assigned reading.

MAJOR PROGRAM

In the Major Program, elective courses will be offered. These courses involve interdisciplinary arrangements with other departments as needed. An elective course may be individualized to the needs of the student, but among the possibilities offered are: Ear, nose and throat problems in general practice; pediatric otolaryngology; otology and audiology in children; basic audiology; head and neck oncology; neuro-otology; broncho-esophagology; radiographic interpretation in the head and neck; eye problems in general practice; pediatric ophthalmology; facial and temporal bone injuries; office practice in ophthalmology, and neuro-ophthalmology.

The Department of Orthopaedic Surgery

Chairman: Franklin T. Hoaglund, M.D. Professor Hoaglund; Associate Professor Wuthier; Assistant Professor Frymoyer; Associate Professors (Clinical) J. F. Bell, Kuhlmann and Rust; Assistant Professors (Clinical) P. H. Davis, Molloy and Simpson.

Orthopaedic Surgery covers a broad field of medicine which is concerned with diseases, deformities, and injuries involving the musculo-skeletal system. The Department of Orthopaedic Surgery has as its prime responsibility the instruction of medical students, house staff, as well as nurses and therapists, in the diagnosis, prevention, and management of problems as related to the musculo-skeletal system. The Department is involved in on-going research programs, both basic and clinical, in the areas of arthritis, traumatic injury, and rehabilitation. All members of the Department are involved in acute and chronic patient care. There is a fully approved orthopaedic residency training program at the Medical Center Hospital of Vermont for six residents in children's and adults' orthopaedics, as well as trauma.

Members of the Orthopaedic Department staff and orthopaedic residents participate in the teaching of medical students in all four years of the curriculum. Members of the staff, including orthopaedic residents, participate in the teaching of anatomy. Lectures are given in physical diagnosis of musculo-skeletal disease and deformity in the Introduction to Clinical Disciplines.

Students are assigned to Orthopaedic Surgery during the Clinical Science Core for both didactic instruction and for the opportunity to examine orthopaedic inpatients and participate in their treatment. Students attend the children's orthopaedic clinic and the general orthopaedic outpatient clinic. Students have regular assignments in the care of patients in the emergency room at both units of the Medical Center Hospital and are encouraged to participate in the operating theater.

Electives are open to interested students during the senior year or the major elective period. At this time there is further opportunity to participate in the care of both inpatient and outpatient orthopaedic patients and to assist as members of the operating team. Limited facilities are available for interested students to pursue both basic and clinical research.

The Department of Pathology and Oncology

Chairman: Robert W. Coon, M.D. Professors Andrews, Coon, Craighead, Korson, Kusserow and Luginbuhl; Associate Professors Clemmons, Duffell, Picoff, Rice, Taylor, E. Stark, Helene W. Toolan (Experimental Pathology), and Trainer; Assistant Professors Buttles, Flory, Harris, Howard and Kaye; Instructor Hooper; Instructor (Clinical) German.

The interests and responsibilities of the Pathology faculty include teaching, research, and the practice of both anatomic and clinical pathology in the affiliated teaching hospitals. The diversity of interest and variety of responsibility within the staff as represented by these activities create an ideal atmosphere for the introduction of students, interns and residents to the study of disease in all of its manifestations.

The Department has responsibilities for the instruction of medical students, graduate students, interns, residents, fellows, and trainees.

BASIC SCIENCE CORE

The major course in Pathology is presented as a part of the Basic Science Core and is designed to present a concentrated, yet comprehensive view of disease in sufficient depth to prepare the student adequately for subsequent clinical studies. Fundamental principles are emphasized and the structural, functional, and clinical correlations are stressed.

Although the organization of the course involves the traditional division into general and special pathology, the emphasis is considerably modified. Pathophysiological correlations are stressed. The teaching format varies, ranging from formal lectures to small informal discussion groups. A student is encouraged and assisted to develop for himself a pattern of self education. Extensive use is made of clinical case studies, frequently in lieu of "loan set slides." Use is also made of gross material, both fresh and preserved. In addition to the loan slide collection, visual aids are used in the classroom and laboratory.

Instruction in clinical pathology is closely correlated with the work in general and special pathology. Instruction in clinical pathology is designed to acquaint the student with laboratory medicine, including the tests available in the clinical laboratory, the value and limitations of these tests, and the interpretation of results. Emphasis is placed on the clinical application of laboratory data and the integration of the data with other clinical findings.

Recently a major effort has been made to do integrated teaching with other departments.

CLINICAL SCIENCE CORE

During the Clinical Science Core portion of the curriculum, the Department of Pathology cooperates with other clinical departments in providing instruction. This includes collaborating on and presenting departmental and specialty conferences, clinical pathological conferences, consultation on clinical prob-

The Department of Pathology and Oncology

lems, and supervision of laboratory tests performed by medical students on patients assigned for their study.

MAJOR PROGRAM

The Department has appropriate courses in pathology for both "majors" in pathology and those in other clinical departments. Elective courses primarily provide in-depth instruction in selected areas of pathology. On the other hand, for those students particularly interested in pathology there is an opportunity for greater exposure to the field while at the same time continuing their in-breadth education as physicians.

GRADUATE COLLEGE COURSES

PREREQUISITE—Permission of the Department Chairman.

201 HISTOCHEMISTRY. A survey of techniques used for chemical identification of cellular and tissue components, including discussion of underlying theories. Prerequisite: an acceptable course in cell structure (e.g., Anatomy 311, Botany 256); Chemistry 131-132; permission of the department. A course in biochemistry is strongly recommended. Credit as arranged.

301-302 GENERAL AND SPECIAL PATHOLOGY. This is similar to the course for second-year medical students. It may be taken by graduate students who have proper prerequisite training. Lectures and conferences total for year, 80 hours. Laboratory: total for year, 160 hours. Ten credit hours total.

By special arrangement, properly qualified graduate students may be permitted to enroll for the first portion of the course only with credit hours to be arranged.

310, 311, 312 ADVANCED PATHOLOGY. Supervised practical experience in handling, processing, and diagnosis of pathological materials. Participation in departmental seminars and conferences. Prerequisite: 301-302; permission of department. Credit as arranged.

320 FUNDAMENTAL ASPECTS OF CELL AND TISSUE PATHOLOGY. An in-depth survey of the mechanisms of inflammation; tissue repair; and disorders of cell metabolism, coagulation phenomena, growth including neoplasia, and immune responses. Prerequisites: General Biochemistry 201 or equivalent; Zoology 112; Anatomy 311 or equivalent; Zoology 231; Physiology 301 or equivalent; Immunology 333 desirable. Four credit hours. Course limited to ten students.

391, 392, 393, 394 THESIS RESEARCH. Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master's thesis. Prerequisite: Courses 301 and 302. Credit as arranged.

The Department of Pediatrics

Chairman: R. James McKay, Jr., M.D. Professors Lucey and McKay; Associate Professor Hodgkin; Assistant Professors Bergner, Minnefor and C. F. Phillips; Assistant Professors (Clinical) Gentry, McKee, Paxson, and Stackpole; Instructors (Clinical) Bates, Elizabeth Clark, Ellerson, Murray, Narke-wicz, Swartz, Tanner, Trumper and Wolk; Clinical Associate Friedman.

The Department seeks through its required course to give each student a grounding in pediatrics which will enable him or her to handle children successfully in whatever branch of medicine is eventually practiced by the student. Particular emphasis is put on doctor-child-parent relationships. Emphasis is also placed on giving the student some perspective on the practical aspects of pediatrics through exposure to the teaching of an active practitioner during one of the two months of clinical clerkship.

The Department also takes the responsibility for pediatric training of interns and residents in the Medical Center Hospital of Vermont in Burlington.

CLINICAL SCIENCE CORE

CLINICAL PEDIATRICS. A two-month clinical clerkship with daily teaching rounds on the pediatric floors of the Medical Center Hospital of Vermont. Each student participates actively in the care of inpatients, spends under supervision one afternoon a week seeing patients in an outpatient clinic, one afternoon a week seeing patients in a child-health clinic, and one day at Brandon Training School.

MAJOR PROGRAM

MAJOR PROGRAM IN PEDIATRICS. Sixteen months during which, in order to provide continuity, the student will participate on a monthly or bi-monthly basis in each of the following clinics: allergy, birth defects, child development, child health, congenital heart, pediatric diagnostic, pediatric follow-up (chronic disease), pediatric psychiatry, school health, and speech and hearing. There will also be monthly basic science seminars to stimulate in-depth study and discussion of the basic science aspects of particular pediatric problems brought up by the clinical experience of the student. The time not devoted to these continuing experiences will be distributed as follows: 3 weeks, clinical microbiology; 6 weeks, inpatient clinical clerkship; 6 weeks, clinical clerkship on nursery service; 3 weeks, preceptorship with a pediatric practitioner; 42 weeks, elective or electives (after discussion with and approval of the Chairman of the Department of Pediatrics).

ELECTIVE COURSES.

AMBULATORY AND COMMUNITY PEDIATRICS. Clinical clerkship in pediatric outpatient facilities of Medical Center Hospital of Vermont or

The Department of Pediatrics

other approved pediatric departments. Participation in the activities of community clinics offering health care to children is an integral part of this rotation.

HOSPITAL PEDIATRICS. Clinical clerkship in inpatient facilities of the Medical Center Hospital of Vermont or other approved pediatric department. Six weeks.

NEONATAL PEDIATRICS. Clinical clerkship on nursery service of Medical Center Hospital of Vermont or other approved pediatric department. Six weeks.

RESEARCH PEDIATRICS. Supervised work in an approved pediatric research laboratory at the University of Vermont or other medical center, or the carrying out under supervision of an approved specific clinical research project. Twelve weeks.

PRACTICE OF PEDIATRICS. Assignment to work with an approved pediatrician in his practice. Three weeks.

PEDIATRIC CARDIOLOGY. See Department of Medicine.

PEDIATRIC NEUROLOGY. See Department of Neurology.

PEDIATRIC ORTHOPEDICS. See Department of Orthopedics.

PEDIATRIC PSYCHIATRY. See Department of Psychiatry.

PEDIATRIC Radiology. See Department of Radiology.

PEDIATRIC Surgery. See Department of Surgery.

The Department of Pharmacology

Chairman: Durwood J. Smith, M.D. Professors Gans, Jaffe, Maxwell (Visiting) and D. J. Smith; Associate Professors Gray, McCormack, Reit and Robinson; Assistant Professor Doremus (Director of Animal Services).

BASIC SCIENCE CORE

The pharmacology course for medical students is taught during the first period of the second year. The course surveys the principal classes of therapeutic agents and stresses the basic principles of pharmacodynamics and drug action. Information is conveyed by means of lectures, teaching films, and demonstrations. Students are encouraged to supplement knowledge about drugs in which they are especially interested by means of optional laboratory and library exercises designed with the help of the staff.

GRADUATE COLLEGE COURSES

The Department of Pharmacology offers graduate programs leading either to the degree of Master of Science or Doctor of Philosophy. Facilities are available for properly qualified students and others for research either independently or in cooperation with members of the staff.

PREREQUISITE—Permission of the Department Chairman.

301 PHARMACOLOGY. This is the course given in the medical curriculum, with such modifications for the individual graduate student as are required. Lectures, demonstrations and laboratory exercises. Six credit hours.

326 EXPERIMENTAL SURGERY. Application of surgical techniques for research in pharmacology, physiology and experimental biology and medicine. Experimental surgery of the gastrointestinal tract, kidney, cardiovascular and endocrine systems will be emphasized. Prerequisite: a basic course in physiology. Two hours. Dr. Gans.

328 INTRODUCTION TO MEDICINAL CHEMISTRY. Therapeutically important classes of drugs will be surveyed stressing synthesis, relationships between physico-chemical properties and pharmacological activity and methods used to evaluate drug action. Prerequisite: Chemistry 131-132. Open to undergraduates with permission of the instructors. Two credit hours. Drs. Gray and McCormack.

372 SPECIAL TOPICS IN PHARMACOLOGY. Topics of current interest and importance in pharmacology are considered in depth through presentations by graduate students, staff, and visiting scientists. One credit hour per semester.

The Department of Pharmacology

381 SEMINAR. Current developments in pharmacology are presented by students as formal lectures. Organized surveys of selected fields may also be presented upon request. Offered both first and second semesters. One credit hour per semester.

391 through 399 MASTER'S THESIS RESEARCH. Independent investigation under the direction of a staff member, culminating in an acceptable thesis. Credit as arranged.

491 through 499 DOCTORAL THESIS RESEARCH. Original research under the direction of a staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.



Horseback riding near Stowe.

The Department of Physiology and Biophysics

Chairman: Norman R. Alpert, Ph.D. Professors Alpert, Chambers, Kusserow, Nyborg and Tabakin; Associate Professors Hanson, Hill, Kelleher, Levy, McCrorey, Parsons, Patterson, and Webb; Assistant Professors Caldwell, Farber, Halpern, Low, Musty and Whitehorn; Instructors (Clinical) Hamrell, MacDonald; Research Associate Lucchina.

BASIC SCIENCE CORE

MEDICAL PHYSIOLOGY AND BIOPHYSICS. Physiology and Biophysics is taught as a science to the first-year medical students, in the second trimester, with emphasis being placed on the broad physical, chemical and biological principles underlying the function of the main organ, tissue and subcellular systems. Special stress is placed on those phases which are the scientific basis of clinical medicine and research. The core course consisting of 110 hours is made up of lectures, demonstrations, conferences and laboratories.

NEUROSCIENCE. The core course in neuroscience outlines morphological and physiological features of the neuron and the central nervous system. The functional significance of structure is emphasized throughout, in order to prepare the student for intelligent diagnosis and localization of neural disorders in the clinical sciences. The course is offered in the second trimester.

MAJOR PROGRAM

There is a vigorous graduate and research program in the Department. Medical students may participate in the advanced seminar type course work, as well as in the various research projects.

GRADUATE COLLEGE COURSES

Under special circumstances medical students may take advantage of the opportunity for graduate study leading to a Master of Science or a Doctor of Philosophy degree. For further details on the graduate program see the catalogue of the Graduate College or write for the Department's brochure. A number of fellowships are available for summer research or graduate study.

PREREQUISITE—Permission of the Instructor of course.

301 PHYSIOLOGY AND BIOPHYSICS. This course is taught as a science to the first-year graduate students, in the second trimester, with emphasis being placed on the broad physical, chemical and biological principles underlying the function of the main organ, tissue and subcellular systems. Special stress is placed on those phases which are the scientific basis of clinical medicine and research. The core course consisting of 110 hours is made up of lectures, demonstrations, conferences, and laboratories. Special Problem Seminar 303 is associated with this course and is given concurrently.

302 NEUROSCIENCE. A correlated presentation of the neuroanatomy and neurophysiology of mammalian CNS. The course will consist of lectures,

The Department of Physiology and Biophysics

demonstrations, and laboratory. The laboratory work consists of both microscopic examination of the nervous system and gross dissection of the human brain. Clinical presentation of patients with neurological deficits are demonstrated when appropriate. To be given jointly by the Departments of Physiology and Anatomy. Four credit hours.

303 through 306 SPECIAL PROBLEMS IN PHYSIOLOGY. These courses, open to qualified students by arrangement with the staff, will cover various special problems by means of lectures, seminars, and directed reading. Hours and credit as arranged.

307 CELLULAR BIOSYNTHETIC PROCESSES AND THEIR CONTROL. Emphasis will be placed on the mechanisms of nucleic acid and protein synthesis in relation to cellular function and differentiation. Prerequisites: Undergraduate biology, biochemistry, or permission of the instructor. Three hours. Miss Farber.

308 BIOMETRICS AND APPLIED STATISTICS. This course is designed as an introduction to the rational use and evaluation of statistical methods in the planning of experiments and the interpretation of biological data. Topics include measures of central tendency and dispersion; "t"-test and analysis of variance; correlation and regression; chi-square; non-parametric methods; experimental design. The course includes a biometrics laboratory. Course limited to ten students. Prerequisite: Math. 110 or equivalent. Five hours credit. Dr. McCrorey.

309 THE PHYSIOLOGY OF SYNAPTIC AND CONDUCTING MEMBRANES. The mechanisms of synaptic transmission and nerve and muscle conduction will be explored, with particular emphasis on molecular structure and function. Prerequisites: Physiology 301, Biochemistry 301-302. Three hours. Alternate years. 1971-72. Dr. Webb.

310 THE MOLECULAR BASIS OF BIOLOGICAL MOTILITY. This is an advanced course dealing with the molecular basis of muscle contraction and biological movement. The problems of energetics, mechanics and chemistry of biological motility will be considered in detail. Special emphasis will be given to the contraction of skeletal muscle. There will be some discussion of pathology, pharmacology and the comparative physiology of muscle related to the areas designated above. Lectures and conferences. Three hours, one semester. Prerequisites: Physiology 301, Biochemistry 301-302. Alternate years. 1970-71. Dr. Alpert.

311 SPECIAL SENSE RECEPTORS. Function of receptor cells from the standpoint of stimulation and response. Specific sense receptors will be considered. Assigned reading in the research literature with seminar discussions. Prerequisite: Physiology 301. Three hours. Alternate years. 1971-72. Dr. A. Chambers.

314 **THE PHYSIOLOGY AND BIOPHYSICS OF THE CIRCULATION.** This course deals with the principles underlying the regulation of circulation. Special emphasis will be given to a consideration of the physiological adjustments to exercise. The course will consist of reading and discussing articles, monographs and reviews. It will be a seminar type course limited to ten students. Three hours. Alternate years, 1971-72. Prerequisite: Physiology 301. 1969-70. Drs. Tabakin, Hanson and Levy.

315 **THE PHYSIOLOGY AND PHARMACOLOGY OF SYNAPSES.** A comparative study of synaptic connections in invertebrate and vertebrate species will be undertaken, with emphasis on their ultrastructure, pharmacology, and physiology. Prerequisites: Physiology 301, Biochemistry 311-312, permission of the instructor. Three hours, one semester. Alternate years. 1970-71. Dr. Parsons.

317 **PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM.** The course will cover electrophysiological studies of the central nervous system of mammals with particular emphasis on concepts dealing with information processing. Supplemental material drawing upon behavioral, neurochemical and clinical observations will also be used. Prerequisites: Physiology 301 or permission of instructor. Three hours. Dr. Whitehorn.

321, 322 **CELLULAR PHYSIOLOGY AND BIOPHYSICS.** Fundamental physical and physiochemical properties of living cells. The reading of original scientific papers in the area covered will be stressed. Prerequisite: permission of the department chairman. Hours and credit as arranged. Staff.

323 **PRINCIPLES AND ELEMENTS OF BIOMEDICAL INSTRUMENTATION.** This course is designed for the biologically-trained researcher to provide a firm understanding of instrument methodology which is inseparable from intelligent planning and execution of experimental investigations. Topics include basic electrophysics; input and output transducers; the concepts and manipulation of bioelectric and other signals; fundamentals of computers, electrochemical and gas measurements; physiological instrument systems. A laboratory using biological material will support these theoretical ideas. Course limited to twelve students. Prerequisites: permission of the instructor. Five hours. Dr. Halpern and staff.

381 through 389 **SEMINAR.** These courses are designed to review recent developments and literature. Topics are presented by students, staff, and by visiting scientists. Hours and credit as arranged.

391 through 394 **THESIS RESEARCH.** Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 through 499 **THESIS RESEARCH.** Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Doctor's thesis. Credit as arranged.

The Department of Psychiatry

Chairman: F. Patrick McKegney, M.D. Professors McKegney and Huessey; Professor (Clinical) Brooks; Associate Professors Folta (Sociology), Goldstein (Psychology), Leitenberg (Psychology), Mitchell (Anthropology), Ravaris and Woodruff; Associate Professors (Clinical) Cohen, Hyde and Laqueur; Assistant Professors, Bingham (Social Work), Chiu, McAree, Nies, Oliveau, Thomson (Social Work), Weaver (Psychology), Weiner, and Willmuth; Assistant Professors (Clinical) Agnew, Deane (Sociology), Leopold, McGinniss, Rife, Thomas, Todd and Toolan; Instructors (Clinical) Burnham, Covey, Curtis, Forsberg, Forsyth, Marshall, Murphy, O'Shea, Sharpe, Sommer, Stark, Stewart (Social Work) and Treial; Clinical Associate Brewster.

While the primary and most obvious responsibility of this Department is the teaching of Psychiatry as a special discipline of Medicine dealing with the diagnosis and treatment of emotional disturbance and mental illness, its task is not confined to this. It also includes the presentation of the behavioral sciences as part of the basic science preparation in the preclinical years and the application of behavioral sciences to disturbed behavior, i.e., Psychopathology. Its teaching also has relevance to medical practice overall. It includes presentation of a body of knowledge concerning human behavior, and techniques for understanding and managing interpersonal relationships, which are utilized by all physicians whatever their field of endeavor.

A residency program approved for three years of training by the Council on Medical Education of the American Medical Association is carried on by the Department in conjunction with the affiliated hospitals. Residents rotate through the general hospitals and state hospital, and affiliations with other mental health agencies are available in the later years of the residency. In addition to the regular clinical teaching and conferences in the hospitals, an academic program of seminar instruction is carried on within the Department during the academic year.

BASIC SCIENCE CORE

311-312 BEHAVIORAL SCIENCE. This is a general course in behavioral science and its relation to medicine for freshman medical students. A behavioral science "point of view" is characterized by an interdisciplinary approach to the understanding of human behavior. It focuses on observable behavior and stresses the study of the multiple factors that influence the individual's behavior within his environment. The behavioral sciences from which data are drawn include anthropology, experimental psychology, social psychology, and sociology. The course is presented in two series of small group seminars. The first examines the setting and practice of medicine; the second examines specific forms of human behavior such as sexuality, pain, aggression, and death.

312-322 **PSYCHOPATHOLOGY.** This course is concerned with giving the student a clear understanding of psychiatric terminology, systems of classification, the major syndromes encountered in psychiatry and establishes a basis for an approach to the observation of psychiatric patients. It includes a basic approach to biological and environmental theories of etiology, including a short exposition on psychodynamic theory. The major treatments in psychiatry are discussed, including physical, pharmacological, psychological and social approaches. The course is organized around the presentation of audio-visual material in the form of short films. Small group discussions with the presentation of clinical cases are utilized in the course.

CLINICAL SCIENCE CORE

PSYCHIATRY. This is the principle clinical course in psychiatry and consists of an eight-week block of time. The main assignments are as a clinical clerk on the psychiatric service of the Mary Fletcher Unit, DeGoesbriand Memorial Unit or the Vermont State Hospital, studying inpatients and outpatients and participating in all regular teaching exercises and conferences. In addition to clinical exercises, students participate in didactic and seminar instruction. Additional assignments offer clinical experience in mental hospitals and visits to other mental health agencies so that the student sees an extended range of patients. Individualized programs can be arranged through the Department.

MAJOR PROGRAM

PSYCHIATRY. Detailed plans for the senior major in psychiatry are still evolving. It is anticipated that this will be chosen by students who intend to pursue a career in psychiatry. The general format will be some combination of:

- a. A basic science block emphasizing those disciplines which most contribute to the preparation of a psychiatrist, e.g., physiology, biochemistry, neurophysiology, neuroanatomy, behavioral and social sciences, and so forth.
- b. Additional clinical assignments on the psychiatric service.
- c. Additional assignments on other clinical services, e.g., medicine, pediatrics, neurology.
- d. Elective assignments.

PSYCHIATRY AS PART OF OTHER MAJORS. Courses in clinical psychiatry will be offered as part of Senior Majors in other departments.

PSYCHIATRIC ELECTIVES. A range of elective placements will be available and also a variety of opportunities for summer work in either a clinical or a research position.

The Department of Radiology

Chairman: John P. Tampas, M.D. Professors Janney (Radiologic Physics), Peterson, Roth (Electrical Engineering), Soule (Emeritus), Tampas and Van Buskirk; Associate Professors Foley, Hunziker, Kupic and Ring (Neuro-radiology and Radiologic Anatomy); Assistant Professors Clements, Guare, Heilman, W. H. Johnston, Mindell and Saxby; Instructors G. S. Brown and Holm; Lecturers Harwood, Izzo and Kasenter. (Radiologic Physics).

The Department of Radiology provides special services to local teaching hospitals and to community hospitals in central and northwestern Vermont. In addition, medical students, residents, nurses and x-ray and isotope technicians receive instruction by members of this Department.

Twelve staff members work full time in radiology in the teaching hospitals and the College of Medicine.

The teaching of radiology extends through the entire four years. In conjunction with the Department of Anatomy, lecture-demonstrations of the normal roentgen anatomy are given during the first year. In conjunction with the Department of Physiology, fluoroscopic demonstrations of the chest and alimentary tract are conducted at the hospitals. During the first part of the second year, students are instructed in the principles of diagnostic and therapeutic radiology. During the clinical core numerous conferences are held in conjunction with the various clinical departments. An elective in radiology and in its various subspecialties is offered during the final year.

A fully accredited residency program is available and utilizes the facilities of the College of Medicine and cooperating hospitals. Staff members participate in nearly all of the teaching conferences of the College of Medicine.

The Department of Rehabilitation Medicine

Chairman: Raymond L. Milhous, M.D. Associate Professors Milhous and Feitelberg; Assistant Professor Ford.

Program of Instruction: Instruction in Rehabilitation Medicine is conducted in conjunction with other Medical College departments and through electives in Rehabilitation Medicine. The Department is also responsible for the physical therapy curriculum in the School of Allied Health Sciences, and conducts continuing education programs for physicians, therapists, counselors and other allied health personnel.

The Department of Rehabilitation Medicine was established in 1966. Department offices are located on the first floor Rehabilitation Building, DeGoesbriand Unit. The purpose of the Department is the teaching of comprehensive medical rehabilitation to medical students, physicians and other health professionals, to improve the quality of rehabilitation services throughout the state and area, and to conduct research in this area of medical practice.

The prevention and early recognition of disability will be stressed in the patient care and teaching programs of the Department. Evaluation of the several aspects of a patient's handicap is performed by objective testing methods such as electromyography, performance of activities of daily living, psychological testing, and by observation of behavior patterns and attitudes.

The Department utilizes the resources of various departments in the College of Medicine and other areas of the University. It complements the diagnostic and therapeutic efforts of other departments in the College of Medicine by establishing a diagnosis of disability. Treatment and counseling relative to the disability are emphasized employing the talents of counselors and therapists, as well as physicians. Included among the health professions which participate are specialists in vocational counseling, hospital administration, physical therapy, occupational therapy, speech pathology, psychology, industrial arts, rehabilitation nursing and social work.

The Department of Rehabilitation Medicine is concerned with the development of a service to evaluate human function that is diminished or lost through congenital or acquired disability. It offers therapy and counseling services designed to shorten the period of convalescence following acute illness or injury; to render a diagnosis of disability and to evaluate its effect on the individual, his family and his community; to return disabled people to work or to school, or to the highest level of self-care that is possible.

Summer Fellowships in Rehabilitation: The Rehabilitation Services Administration of the Department of Health, Education and Welfare supports a number of Summer Fellowships in Rehabilitation. These are available for periods of two or three months, during which time the student receives an appropriate stipend. The student is associated with members of the faculty

The Department of Rehabilitation Medicine

and house staff in the Department of Rehabilitation Medicine. Students become acquainted with the types of patients that are referred to a rehabilitation service and with the techniques and methods used by the allied health professions, official and voluntary community health and welfare agencies and with the large number of other services which are needed by patients with long-term illness and disability.

It is hoped that some of the Summer Fellows will become interested in rehabilitation medicine to the extent of selecting it as a career. More important, an effort is made to develop a broad understanding of this field of medicine so that students who participate will be better physicians and will understand that rehabilitation services are an essential part of good medical care.

MAJOR PROGRAM

An elective in Rehabilitation Medicine is offered during the major program. The duration of this elective is six weeks. During this period the student is associated with members of the faculty in the Department of Rehabilitation Medicine. He is introduced to the mission and some of the techniques of rehabilitation medicine. He is associated with department staff when rehabilitation goals for patients with disabilities are established. He will attend ward rounds, rehabilitation team conferences, and other departmental activities. It is anticipated that the student who completes this elective will have a good idea of rehabilitation medicine and will have some understanding of the use of the allied health sciences which are associated with rehabilitation. The role of official and voluntary health agencies which are concerned with rehabilitation and long-term medical care is stressed.

The Department of Surgery

Chairman: John H. Davis, M.D. Professors Davis and Mackay; Professors (Clinical) Gladstone and Page; Associate Professor Abrams; Associate Professors (Clinical) Farnham and (Emeritus) Truax; Assistant Professors Bunker, Foster (Oncology), and Pilcher; Assistant Professors (Clinical) Barney (Plastic), Cain, Haines, (Oncology), Keller, Linton (Plastic), McGill, McSweeney, Shea, and Thabault.

In addition to developing and implementing the surgical curriculum in the College of Medicine, the Department of Surgery is responsible for the training of interns and surgical residents at the Medical Center Hospital of Vermont. The Department consists of the following divisions: Anesthesiology, Neurosurgery, Otolaryngology, Pediatric Surgery, Thoracic and Cardiac Surgery and Urology.

BASIC SCIENCE CORE

Members of the staff of the Department of Surgery participate in the multi-discipline course "Introduction to Clinical Disciplines" which includes history-taking, physical diagnosis and the pathophysiology of disease.

CLINICAL SCIENCE CORE

The twelve-week core program in clinical surgery emphasizes the hospital care of patients with surgical illnesses. Students assigned to a surgical floor work as members of a team that includes the intern, resident staff and attending surgeons. The student is responsible for the initial history and physical examination of patients assigned to him and participates in all aspects of patient care, including operative procedures. Continuity of care is stressed. A two-week assignment in the Emergency Room is included in the rotation as well as a two-week elective rotation on a specialty section of the Department of Surgery. Instruction in general surgery is at the bedside; didactic material is presented throughout the twelve-week program by the staff of the specialty sections. Students take night and week-end call with the members of their house staff team.

MAJOR PROGRAM

The Department of Surgery offers a Major Program to students seeking a career in general surgery or a surgical specialty. Three months are spent in a basic science review that is oriented to clinical surgical practice. Under the guidance of an advisor from the surgical faculty, students elect from a variety of programs in surgery or in other departments within the College, including the Basic Science Departments. The Major student has the opportunity to serve a preceptorship with one of the senior attending surgeons on the staff. Rotations are offered at hospitals other than the Medical Center Hospital and

The Department of Surgery

students are encouraged to take elective rotations at hospitals throughout the country. An opportunity to participate in on-going research projects within the Department of Surgery is also available.

Section of Anesthesiology

Chairman: John Abajian, Jr., M.D. Professor Abajian; Associate Professors (Clinical) Dente and Mazuzan; Assistant Professors (Clinical) Deane, Hartford, Morgan, Pease and Shinozaki; Instructors (Clinical) Bamber, R. Bell and Falkenberg; Research and Clinical Associate Ikeda.

The third-year instruction will be confined to intensive, small-group, operating room didactic and practical experience. A two-week elective program for fourth-year students is available on the surgical rotation. This time may be spent on intensive respiratory care with the Respiratory Therapy group.

A full month of elective may be taken with special permission. Weekly anesthesia conferences are open to students. The resident training program consists of the appointment of six residents for two or three years.

Section of Neurosurgery

Chairman: R. M. Peardon Donaghy, M.D. Professors (Clinical) Donaghy and Wallman; Associate Professor Numoto (Experimental); Associate Professor (Clinical) Flanagan.

The Section of Neurosurgery exists for four main purposes: research, teaching, therapy of neurological conditions by surgical measures, and aid to all regional practicing physicians via the medium of consultation.

During the early Core program in Surgery, a series of discussions are held on clinical problems involving the nervous system. One week is devoted to a study of the physiology of the nervous system as it relates to clinical states, i.e., intracranial pressure, nerve conduction, tissue potentials, membrane properties, etc.

In the later Neurological Science Program, provision is made for electives on clinical and/or laboratory surgical neurology. The former is designed for those students desiring exposure to the complete evaluation of the patient plus a knowledge of the criteria on which a decision is based as to the need for emergency or a more lengthy methodical treatment. The latter is for those students who desire exposure to research methods and thinking and who are interested in a deeper study of the physiological circuitry of the nervous system than is commonly provided or required.

A Summer Fellowship is open to a student who desires a two-to-three-month period of laboratory work and who can demonstrate a satisfactory basic knowledge of the nervous system, its anatomy, chemistry and physiology.

A six-year residency program for physicians interested in neurosurgery is maintained, consisting of one year of general surgery, one year of neurology or neurological science, and four years of neurosurgery—one of which must be in laboratory or clinical research.

A Fellowship of one year is also provided for a graduate of a residency program interested in acquiring the peculiar techniques of microneurosurgery.

The teaching sessions incident to both the resident and fellowship programs may be open on application to the student who satisfactorily demonstrates an interest in and knowledge of the nervous system.

Section of Otolaryngology

Chairman: Charles F. Tschopp, M.D. Associate Professor Tschopp; Assistant Professor J. McGinnis; Assistant Professors (Clinical) Goldsborough and Heisse; Instructor (Clinical) Falkenberg.

CLINICAL SCIENCE CORE

The Section of Otolaryngology participates in the course on Introduction to Clinical Disciplines in the second year by providing instruction in the physical examination of the ears, nose and throat.

In the third year the Section of Otolaryngology offers five hours of didactic lecture in clinical otolaryngology, eight hours of practical experience in otolaryngology carried out in the private offices.

MAJOR PROGRAM

In the Major Program, elective courses will be offered. The courses are offered in conjunction with the Department of Ophthalmology and with other departments as needed. An elective course may be individualized to the needs of the student, but among the possibilities offered are: ear, nose and throat problems in general practice; pediatric otolaryngology, otology and audiology in children; basic audiology; head and neck oncology; neuro-otology; broncho-esophagology; radiographic interpretation in the head and neck, and facial and temporal bone injuries.

The Department of Surgery

Section of Pediatric Surgery

Chairman: R. W. Paul Mellish, M.B., B.S. Associate Professor Mellish. The Section of Pediatric Surgery aims to provide optimum surgical care for children in the hospitals of the University of Vermont Medical Center. A consultative service for other departments, practicing physicians and the State Department of Health has been developed.

The teaching program complements the general surgical courses with demonstrations and lectures for the third-year students designed to enable them to recognize pediatric surgical problems. Tutorial sessions are held at both Units of the local hospital. These are directed toward case presentation by the students. Pediatric surgical rounds are made daily at each Unit. A Pediatric Surgical Conference is held once a week with multidiscipline discussion of pediatric surgical problems. In the fourth year, the students may take an elective in pediatric surgery.

An active research program is under way with particular stress on problems of the new-born infant. Third-year students are given the opportunity to develop their interests in summer research fellowships. Fourth-year elective students may take part in the research.

The service is integrated with the general surgical residency program and works closely with the Department of Pediatrics in the care of patients.

Section of Thoracic and Cardiac Surgery

Chairman: Laurence H. Coffin, M.D. Associate Professor Coffin; Associate Professor (Clinical) Miller.

The thoracic surgeon is a specialist in disease within the chest, who also performs surgery. The teaching program of Thoracic and Cardiac Surgery emphasizes the dynamic interplay of medical sciences and humanities in achieving optimal patient care. Sponsored formal meetings include a weekly combined medical-surgical conference, a monthly thoracic X-ray review, a monthly Thoracic Surgical Pathology Conference, combined conferences with the Cardiopulmonary Division, and cardiac surgery workshops. Formal lectures are kept to a minimum, with preferential teaching on rounds, "spot seminars," and student tutorials. The students participate actively in work-up and presentation of patients, in surgery (including openheart) and in postoperative management.

Diagnostic activities include the more sophisticated assessment of coronary and other heart disease, as well as conventional procedures in thoracic and cardiovascular problems. Techniques in diagnosis and in disease evaluation

are under constant research and development. The clinical program includes all phases of thoracic and cardiovascular disease in the two units of the Medical Center Hospital, as well as related consultative programs at the Vermont Sanatorium in Pittsford, and the Barre Chest Clinic.

Operative programs, in addition to conventional thoracic procedures, include cardiopulmonary by-pass for open-heart surgery. Postoperative care involves the required attention to customary problems and, in addition, intensive postoperative management of serious problems, including Special Care Unit. The research program is concerned with all facets of cardiovascular pulmonary disease and shock. Both experimental and clinical investigative problems relate to open-heart surgery, to postpump syndromes, the modification of existing and development of new prosthetic valves, postoperative assessment of cardiac and of pulmonary function after surgery and shock. A broad program in coronary surgery, integrated with other departments within the medical school, is under development. Summer student fellowships are available each year in all programs.

Section of Urology

Chairman: Guy W. Leadbetter, Jr., M.D. Professors (Clinical) Leadbetter and Powell; Associate Professor (Clinical) Fagan; Assistant Professor (Clinical) Morrisseau; Instructor (Clinical) Esposito.

The teaching program is directed at the third and fourth years. Didactic lectures, usually levelled at the third-year group, are largely supplemented by tutorial sessions with smaller groups, briefly reviewing and clarifying puzzling aspects of material to be covered.

Patient material is used to assist in this effort. Third- and fourth-year teaching is carried out almost entirely in the hospital where the students are particularly active on the wards and in the outpatient departments. They are occupied with patient study, weekly urological rounds, intravenous pyelography conferences, observation in cystoscopy and operating rooms. Students in their senior year may take an elective month in urology, and in some instances, carry on research projects throughout the year.

A three-year approved urological residency program has been operational for a number of years with clinical and research material gathered from both Units of the teaching hospital and the College of Medicine research unit. Research projects in recent years have been carried out in cinefluorography, hypertension, microsurgery of ureter and vas deferens, and so forth.

Interns are assigned to urology in both Units and participate in teaching and conferences.

The Charles A. Dana Medical Library

Medical Librarian George H. Hunter, M.A.; Assistant Librarian Mrs. Ellen Gillies, B.S. in L.S.; Regional Medical Librarian Mrs. Gail Weinsieder, B.L.S.

The Medical Library is located in the center of the Medical College complex, between the Medical Alumni and the Given Medical Buildings. Two floors and stacks house about 42,000 volumes, including about 1,000 rare books, as well as medical instruments and apparatus of our Vermont medical history. Exhibits in the literature and history of medicine are presented regularly.

The Library receives regularly 1,512 journals and adds about 200 new titles annually.

All users have free access to the open stacks, which contain study carrels. Further space for readers is provided on the main floor reading room.

The Library is open from 8:30 a.m. to 1:00 a.m. Monday through Saturday and 10:00 a.m. to 1:00 a.m. Sunday.

Photocopy service is available on the ground floor (machine room) where an experienced Xeroxologist is on duty from 8:30 a.m. to 5:00 p.m., Monday through Friday. There is also a copying machine adjacent to the circulation desk, available during the evenings and weekends. A TWX (teletype) machine provides speedy transmission of interlibrary loan requests. The facilities of larger medical libraries such as the Yale Medical Library and the Countway Library of Medicine (Harvard) are thus readily available to the students and faculty. The University of Vermont Medical Library is actively participating in current planning for library cooperation on a local, regional and national basis.

Regional Medical Program

Assistant Dean for Comprehensive Regional Medical Planning David A. Miller, M.S.; Director of Regional Medical Program John E. Wennberg, M.D.; Associate Director Regional Medical Program Donald J. Danielson, B.S., M.H.A.; Assistant Director for Program Development Caryl Stewart, M.S.W.; Assistant Director for Education Robert Liversidge, A.B., M.A.; Systems Analyst, Roger Gillim, B.A., M.S.; Research Associates: Barbara Guidi, B.A., Patricia Hickox, B.A., Karen Provost, B.A.; Administrative Assistant David Irby, B.D.; Coordinator Data Base Catherine Lloyd, B.A.; Coordinator Nursing Elizabeth Nutt, R.N., B.S.; Programmer John Senning, B.S.; Nurse Coordinator Judith Whitaker, R.N., B.S., M.S.

In June 1966 the University of Vermont College of Medicine was among the first five institutions in the country to be awarded a grant by the National Institutes of Health to plan a Regional Medical Program (P.L. 89-239).

The Northern New England Regional Medical Program became operational May 1, 1969 after a two and one-half year planning grant. The specific objective of the Regional Medical Program is to decrease mortality and disability due to disease; this concern for improving health is expressed in the following activities:

- 1) The development of specific programs that emphasize the establishment of a regional approach to the clinical management of disease. An example of this activity is the Coronary Care Program which has established a network of specialized units for the treatment of acute heart disease.
- 2) The development of integrated and regionalized approaches to the development and use of expensive medical resources. To this end the Regional Medical Program has provided technical support through its regional health information base to the Regional Advisory Board.
- 3) The stimulation of planning activity at the areawide level through affiliation with locally organized planning groups. Financial support for part of the expenses of the basic staff of the Connecticut Valley Health Compact is an example of this activity.
- 4) Technical support for areawide planning groups and other appropriate agencies in the development of areawide studies for specific projects. The Community Report prepared for the Connecticut Valley Health Compact is an example of this.

The staff of the Regional Medical Program works closely with the Department of Community Medicine, the Office of Continuing Medical Education and the State Health Department to meet the objectives of the Program.

Honors and Prizes

Alpha Omega Alpha, Honor Medical Society: Students are elected to this national society by faculty and student members. Selection is based not only upon high academic records but also upon evidence of individual scholarship and promise for an outstanding medical career.

The Carbee Prize: A prize fund of three thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N.H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. The annual income from the investment of this fund provides a prize to be awarded annually to the student who has shown the greatest proficiency in the field of Obstetrics. The Department of Obstetrics makes the award.

The Lamb Foundation Awards are presented to those students who best exemplify the highest ideals of physician-patient relationships.

The Mosby Scholarship Book Awards are given to the five students selected for excellence of performance and service to their class.

The UVM Century Club Prize for Undergraduate Research: This annual award is presented for performance of a research project with outstanding competence.

The William Eustic Brown Alumni Prize: This award is presented annually to a graduating student on the basis of broad cultural interests and loyalty to the College of Medicine. The award was established by an annual grant from the Century Club of the UVM Medical Alumni Association.

The Ernest Hiram Buttles Century Club Prize: This award is presented annually to the second-year student selected by the Department of Pathology for outstanding performance in that subject.

HONORS AND PRIZES, 1969

Carbee Prize, for greatest proficiency in the subject of Obstetrics, Eugene F. Fuchs, B.S., B.S.

Woodbury Prizes in Medicine: for greatest proficiency in Clinical Work in senior year, Martin J. Rosenstein, A.B. and Thomas I. Soule, B.A.

Helaine Mesch Memorial Award, Keith N. Megathlin, A.B., M.S.

Cum Laude:

Edward Norman Bailey, B.A.
James Roby Green, A.B.
Karen Preis, B.A.

Martin J. Rosenstein, A.B.
Thomas Ingalls Soule, B.A.

Alpha Omega Alpha National Honor Medical Society:

Jacob Raphael Aslanian, A.B.
Edward N. Bailey, B.A.
James R. Green, A.B.
John E. Hunt, Jr., B.S.
Frank W. Kilpatrick, A.B.
William James MacDonald, Jr., A.B.

Donald Anthony Majercik, B.A.
Karen Preis, B.A.
Darryl L. Raszl, B.A.
Martin J. Rosenstein, A.B.
Norman J. Snow, B.A.
Thomas I. Soule, B.A.

The William Eustis Brown Alumni Prize, awarded to a senior on the basis of broad cultural interests and loyalty to the College of Medicine, Richard Gendron, A.B.

The UVM Century Club Prizes for Scholarship, awarded to the two students attaining the highest scholastic rank based on four years completed at the University of Vermont College of Medicine. 1st Prize, Karen Preis, B.A.; 2nd Prize, James R. Green, A.B.

The Ernest Hiram Buttles Century Club Prize, awarded to the sophomore selected by the Department of Pathology for outstanding work in that subject, Barbara Wolk Stechenberg, A.B.

The Chester A. Newhall Prize: A fund of two thousand dollars, established by students, colleagues and friends of Chester A. Newhall, M.D., Chairman, Department of Anatomy (1940-1968). The income from the investment of this fund is to be awarded annually to that first-year student who has shown the greatest proficiency in the Anatomical Sciences.

The Roche Award, given to a student whose compassion and appreciation of patients' needs promise distinguished service in the care of the sick. David H. Cheney, B.A.

The Pfizer Award, awarded annually to a student on the basis of scholastic record, financial need, or both, Adrienne Louise Buuck, A.B.

The UVM Century Club Prize for Undergraduate Research, Kenneth I. Hunt, B.A.

Honors and Prizes

The Lamb Foundation Awards, given to those students who best exemplify the highest ideals of physician-patient relationships.

Norbert J. Gilmore, B.A., Ph.D.

Karen Preis, B.A.

John E. Hunt, Jr., B.S.

The Mosby Scholarship Book Awards, given for excellence of performance and service to the class.

Michael B. Andorsky, B.A.

Steven H. Sherman, B.A.

James R. Green, A.B.

Norman J. Snow, B.A.

Joel A. Sabeau, A.B.



Looking east from the top of Mt. Mansfield.

Lectureships

Clarence H. Beecher Memorial Lecture: In 1960 the Vermont Heart Association established this memorial lecture in honor of one of its founders and past president, Dr. Clarence H. Beecher.

Wayne Griffith Memorial Lecture: In 1960 the Vermont Division of the American Cancer Society established a memorial lecture for Wayne Griffith, M.D., formerly of Chester, Vt.

Organizations

STUDENT COUNCIL

Two elected representatives from each class, and the president of each class ex officio, form a student council which meets with the Dean and the Assistant Dean regularly during the academic year.

ALPHA OMEGA ALPHA

A chapter of the national medical honor society was installed at this college on November 21, 1952.

BEAUMONT MEDICAL CLUB

The Beaumont Medical Club was formed for the enjoyment of the history of medicine. Informal meetings are held through the year, and there is an annual formal lecture. The Medical Alumni Association provides financial support.

THE OSLER CLINICAL SOCIETY

The Osler Clinical Society, which was organized in 1929, is composed of all undergraduate students in the College of Medicine.

MEDICAL STUDENTS WIVES CLUB

Wives of medical students meet frequently during the year for social activities and other projects.

UVM MEDICAL ALUMNI ASSOCIATION

The University of Vermont Medical Alumni Association, whose membership is made up of all graduates of the College of Medicine, is increasingly active in its support of the school and student body.

Organizations

Each fall the Alumni Association sponsors a Century Club banquet, at which time all members of the junior class are entertained and recent graduates of the medical school help prepare the prospective graduates for their years of postgraduate education.

The Alumni Association also sponsors many awards and prizes which are given to outstanding students.

At Commencement the Medical Alumni Association sponsors an annual alumni banquet on Alumni Day, at which time the senior class members and their guests attend with all alumni who are returning for Commencement.

In addition, the Alumni Association through its Century Club sponsors many student and faculty endeavors during the year. This includes such activities as the sponsorship of visiting professors, the support of students who are doing research, and of studies of educational methods in medicine.

For the year 1970-71 the following alumni serve as officers of The University of Vermont Medical Alumni Association:

President—Thomas G. Cogswell, '38, Concord, N.H.

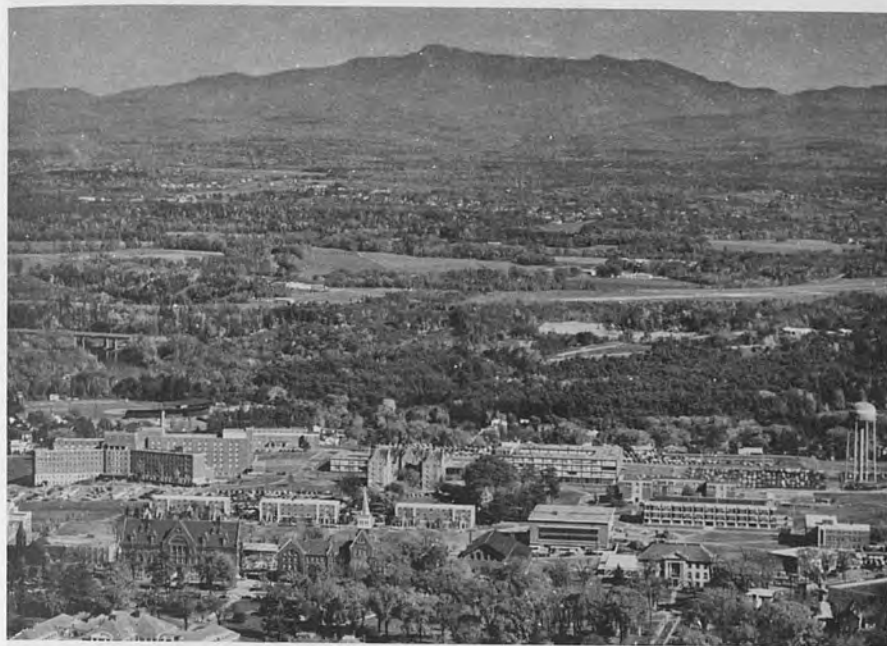
President-Elect—John C. Cunningham, '35, Burlington

Vice President—Stanley L. Burns, '55, Burlington

Secretary-Treasurer pro tempore—John P. Tampas, '54, Burlington

Executive Committee—Edward S. Irwin, '55, Burlington; John P. Tampas, '54, Burlington; A. Bradley Soule, Jr., '28, Burlington.

ADMINISTRATION AND FACULTY



Aerial view looking east from the campus to the Green Mountains.

The Board of Trustees

Edward C. Andrews, Jr., A.B., M.D., President	Ex-Officio
Deane Chandler Davis, LL.B., Governor	Ex-Officio

March, 1965-March, 1971

William Thomas Burns, B.S.	Dorset, Vt.
Edward Richardson Eurich	Waitsfield, Vt.
Leo O'Brien, Jr., B.A.	South Burlington, Vt.
Walter Cabot Paine, A.B.	Hanover, N.H.

March, 1966-March, 1972

John Luther Beckley, Ph.B.	North Caldwell, N.J.
Leon Donald Latham, Jr., Ph.B., LL.B.	Burlington, Vt.
Kenneth Nash Scott, B.S.	Grosse Pointe, Mich.

March, 1967-March, 1973

Peter Guiliani	Montpelier, Vt.
Ellwyn Edward Miller, B.S.	Putney, Vt.
Robert Emmett O'Brien, B.S., M.D.	Winooski, Vt.
George Howard Sloan, M.A.	Rutland, Vt.

March, 1968-March, 1974

Bingham Johnson Humphrey, B.S., Ph.D.	Mt. Carmel, Conn.
George Edward Little, Jr., A.B.	Burlington, Vt.
Charles Theodore Schechtman, M.D.	New Britain, Conn.

March, 1969-March, 1975

C. Douglas Cairns, S.B.	Burlington, Vt.
Thomas Henry Candon, B.S.	Rutland, Vt.
Arthur Henry Jones, B.S.	Morgan, Vt.
Francis Robert Peisch, A.B., LL.B.	Burlington, Vt.

March, 1970-March, 1976

Howard Alfred Allen, Jr., B.S.	Burlington, Vt.
Harry James Bolwell, B.S.M.E.	Bloomfield, N.J.
Allen Ober Eaton, B.S., LL.B.	Winchester, Mass.

Academic Divisions and Colleges of the University of Vermont

Edward Clinton Andrews, Jr., A.B., M.D.

President of the University

THE COLLEGE OF ARTS AND SCIENCES

John George Weiger, Ph.D., Acting Dean

A general four-year program is provided leading to the degree of Bachelor of Arts with the opportunity for concentration in one or more of the following studies: botany, chemistry, commerce and economics, English, French, geology, German, Greek, history, Latin, mathematics, music, philosophy, physics, political science, psychology, sociology, Spanish, speech, and zoology. Pre-professional programs for students who plan to continue their education in professional schools may be planned.

THE COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Thomas Whitfield Dowe, Ph.D., Dean

Four-year programs are offered leading to the degree of Bachelor of Science. Over twenty areas of concentration are available and include the following: agriculture, biological science, environmental studies, forest management, home economics, preveterinary science, recreation resource management, social welfare, vocational education and wildlife management.

THE COLLEGE OF TECHNOLOGY

Warren Orvel Essler, Ph.D., Dean

Included in this college are curricula in civil, electrical, mechanical and management engineering, and professional chemistry.

THE COLLEGE OF EDUCATION

Dean Corrigan, Ed.D., Dean

Four-year curricula are offered leading to the Bachelor of Science degree in the fields of elementary, secondary, business, and music education.

THE DIVISION OF HEALTH SCIENCES

William Hossfeld Luginbuhl, M.D., Dean

The Division of Health Sciences includes:

THE COLLEGE OF MEDICINE

William Hossfeld Luginbuhl, M.D., Dean

The College of Medicine offers a four-year graduate program leading to the degree Doctor of Medicine and provides facilities for a limited num-

Academic Divisions and Colleges of The University of Vermont

ber of candidates for other graduate degrees to take courses in its departments.

THE SCHOOL OF NURSING

Norma Lowyn Woodruff, Ph.D., Director

The School of Nursing offers a four-academic-year curriculum leading to the degree of Bachelor of Science in Nursing and a two-year program leading to the degree Associate of Science in Nursing.

THE SCHOOL OF ALLIED HEALTH SCIENCES

Robert William Coon, M.D., Director

The School of Allied Health Sciences offers an Associate Degree in Dental Hygiene, a Bachelor of Science in Medical Technology, and an Associate Degree for Medical Laboratory Technicians.

THE GRADUATE COLLEGE

Donald Boyce Johnstone, Ph.D., Dean

Opportunities for graduate study are offered in academic fields in which University resources have made sound graduate programs possible. Doctoral programs have been inaugurated in several areas and Master's programs are available in nearly all departments. The Graduate College administers all studies beyond the Bachelor's degree with the exception of the program in the College of Medicine leading to the degree Doctor of Medicine.

CONTINUING EDUCATION

THE SUMMER SESSION

Raymond Virgil Phillips, Ph.D., Dean

Jack Ernest Little, Ph.D., Assistant Dean

Courses are offered on both the graduate and undergraduate level in many subjects under the regular staff, as well as special classes given by visiting instructors.

THE EVENING DIVISION

John Robert Bushey, B.S., Director

Courses are offered on the University of Vermont campus and at other locations throughout the State.

Division of Health Sciences Administration

William Hossfeld Luginbuhl, B.S., M.D.	Dean
Robert William Coon, B.S., M.D.	Associate Dean
Ben Ralph Forsyth, M.D.	Associate Dean
Donald Brehaut MacPhail, A.B.	Director of Administration
Robert Birchall Lorenz, B.S., M.S., Ph.D.	Director, Office of Instructional Resources
George William Welsh, B.A., M.D.	Director, Office of Continuing Education, Health Sciences
Gerald Goold, B.A.	Administrative Associate, Continuing Education

College of Medicine Administration

William Hossfeld Luginbuhl, B.S., M.D.	Dean
David Babbott, B.A., M.D.	Assistant Dean
David M. Tormey, B.S., M.D.	Assistant Dean
David Allison Miller, M.S.	Assistant Dean
Chester Albert Newhall, A.B., M.D.	Secretary of the Faculty
John Egmont Wennberg, B.A., M.P.H., M.D.	Director, Regional Medical Program
James Henry Bates, B.S., M.Ed.	Executive Assistant
Cornelia Josephine Baylies, A.B.	Administrative Assistant
Margaret Miller Hinman, B.S.	Administrative Assistant (Admissions)
Elizabeth Phillips Reed	Administrative Assistant

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Admissions Committee

David M. Tormey, Chairman. John D. Boardman; Clarence E. Bunker; John P. Clements; Joseph C. Foley; William E. Hodgkin; Roy Korson; John C. Lantman; John J. McCormack; C. Alan Phillips; Ronald C. Picoff; John Twitchell; Sheldon Weiner.

Advancement Committee

David Babbott, Chairman. Department and Section chairmen.

Animal Facilities Committee

Henry M. Doremus, Chairman. Roger S. Foster; Ernest Reit.

Awards and Fellowships Committee

Ellsworth L. Amidon, Chairman. Albert G. Mackay; John Van S. Maeck; R. James McKay; Durwood J. Smith; A. Bradley Soule, Jr.

Building Committee

Donald B. Melville, Chairman. Robert W. Coon; John Van S. Maeck; Durwood J. Smith.

Clinical Research Center Advisory Committee

Edward S. Horton, Chairman. Ellsworth L. Amidon; Robert W. Coon; John H. Davis; Ben R. Forsyth; William G. George; William H. Luginbuhl; Herluf V. Olsen, Jr.; John Van S. Maeck; F. Patrick McKegney; Ethan A. H. Sims; W. Allan Tisdale.

Curriculum Committee

C. Alan Phillips, Chairman. David Babbott; William J. Young; Ben R. Forsyth; Jerome S. Abrams; Norman R. Alpert; F. Patrick McKegney; Wayne E. Pasanen ('71); Alan D. Covey ('72); David B. Werner ('73).

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Medical Center Medical Board Members

George E. Little, Jr.; Howard A. Allen, Jr.; Charles T. Schechtman; George Sloan; I. Munn Boardman, Jr.; Steven B. Richardson.

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Thomas Stephen Brown, M.D., University of Vermont, 1904. Professor of Anatomy.

Rupert Addison Chittick, B.S., University of Nebraska, 1923; M.A., 1924; M.D., Harvard, 1929. Professor of Psychiatry.

Oliver Newell Eastman, M.D., University of Vermont, 1908. Professor of Obstetrics and Gynecology.

J. Louis Philippe Forest, A.B., Laval, 1920; M.D., University of Montreal, 1925. Assistant Professor of Clinical Psychiatry.

Paul Kendrick French, Ph.B., University of Vermont, 1920; M.D., 1923. Professor of Clinical Medicine. p. 74.

Henry Lee Mills, D.V.M., Grand Rapids Veterinary College, 1911. Instructor in Public Health.

Chester Albert Newhall (Thayer Professor of Anatomy), A.B., North Central College, 1924; M.D., University of Vermont, 1928. Professor of Anatomy. pp. 26, 74.

*Harold Barnard Pierce, B.S., Massachusetts State College, 1917; M.S. Pennsylvania State College, 1921. Ph.D., Univ. of Rochester, 1928. Professor of Biochemistry.

**Wihelm Raab, M.D., University of Vienna, 1920; M.D., German University of Prague, 1926. Professor Experimental Medicine.

Arthur Bradley Soule, Jr., A.B., University of Vermont, 1925; M.D., 1928. pp. 54, 68, 74.

Karl Treial, M.D., Tartu (Estonia), 1933. Instructor of Psychiatry. p. 52.

Keith Frank Truax, B.S., University of Vermont, 1928; M.D., 1931. Associate Professor of Surgery.

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* Deceased. March 16, 1970.

** Deceased. Sept. 21, 1970.

Alfred Hayes Chambers, A.B., Swarthmore, 1936; Ph.D., University of Pennsylvania, 1942. pp. 49, 50.

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John Charles Cunningham (Shipman Professor of Ophthalmology), A.B., University of Vermont, 1931; M.D., 1935. pp. 41, 68, 73.

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Jerold Francis Lucey, A.B., Dartmouth, 1948; M.D., New York University, 1952. pp. 45, 74.

William Hossfeld Luginbuhl, B.S., Iowa State College, 1949; M.D., Northwestern, 1953. pp. 43, 71, 73, 74.

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Albert George Mackay, B.S., University of Vermont, 1929; M.D., 1932. pp. 57, 74.

*William Hooper Macmillan, A.B., McGill, 1948; Ph.D., Yale, 1954.

John Van Sicklen Maeck, B.S., University of Vermont, 1936; M.D., 1939. pp. 39, 73, 74.

Herbert Lloyd Martin, B.S., Boston University, 1947; M.D., 1950. p. 38.

Robert Arthur Maxwell (Visiting), A.B., Syracuse, 1951; M.A., Ph.D., Princeton, 1954. p. 47.

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Frank Patrick McKegney, A.B., Middlebury, 1954; M.D., Yale, 1958. pp. 52, 73.

Donald Burton Melville, B.S., University of Illinois, 1936; M.S., 1937; Ph.D., 1939. pp. 29, 73, 74.

Donald Joseph Merchant, A.B., Berea College, 1942; M.S., University of Michigan, 1947; Ph.D., 1950. p. 33.

**Rufus Clegg Morrow, Jr., B.S., Davidson College, 1934; M.D., Duke 1939.

Herluf V. Olsen, Jr., A.B., Dartmouth, 1950; M.H.A., University of Minnesota, 1952. pp. 73, 74.

Harold Gordon Page, B.S., University of Vermont, 1940; M.D., 1945. p. 57.

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Charles Marcel Poser, B.S., College of the City of New York, 1947; M.D., Columbia, 1951. pp. 38, 73.

Platt Rugar Powell, B.S., University of Vermont, 1936; M.D., 1939. p. 61.

Wilfred Roth (Electrical Engineering), B.S. in E.E., Columbia, 1943; Ph.D. in Physics, Massachusetts Institute of Technology, 1948. p. 54.

George Adam Schumacher (National Institutes of Health Career Professorship Award), B.S., Pennsylvania State University, 1932; M.D., Cornell, 1936. p. 38.

Ethan Allen Hitchcock Sims, B.S., Harvard, 1938; M.D., College of Physicians and Surgeons, Columbia University, 1942. pp. 29, 35, 74.

William Joseph Slavin, Jr., B.S., University of Vermont, 1933; M.D., 1935. p. 39.

Durwood James Smith, A.B., Syracuse, 1938; M.D., 1941. pp. 47, 73, 74.

Samuel Solomon, B.Sc., McGill, 1947; M.Sc., 1951; Ph.D., 1953. p. 39.

Warren R. Stinebring, B.A., University of Buffalo, 1948; M.S., University of Pennsylvania, 1949; Ph.D., 1951. pp. 33, 73.

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** Leave of absence, 1970-71.

*Ralph Daniel Sussman, B.S., University of Vermont, 1935; M.D., 1938.

**Burton Samuel Tabakin, A.B., University of Pennsylvania, 1943; M.D., 1947. pp. 35, 49, 51.

John Peter Tampas (Pediatric and Cardiac Radiology), B.S., University of Vermont, 1951; M.D., 1954. p. 54.

William Allan Tisdale, B.S., University of Florida, 1947; M.D., Harvard, 1951. pp. 35, 73.

Frederick William Van Buskirk, A.B., University of Pennsylvania, 1930; M.D., 1933. p. 54.

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Robert Bascom Aiken, Ph.B., University of Vermont, 1931; M.S., 1933; M.D., 1937; M.P.H., Harvard, 1948. p. 31.

#Frank Lusk Babbott, Jr., B.A., Amherst, 1947; M.D., New York University, 1951; M.P.H., Harvard, 1953; M.S. in Hygiene, 1954. p. 31.

Warren Lazell Beeken, B.S., Haverford, 1949; M.D., Temple, 1953. pp. 35, 73.

John Frye Bell, A.B., Yale, 1931; M.D., Harvard, 1935; M.P.H., 1952. p. 42.

John Francis Berry, A.B., Holy Cross, 1939; M.S., Columbia, 1948. p. 74.

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John Douglas Boardman, A.B., Holy Cross, 1945; M.D., University of Vermont, 1948. p. 39.

Richard Emile Bouchard, M.D., University of Vermont, 1949; M.S., 1951. p. 35.

R. Clay Burchell, B.S., Massachusetts Institute of Technology, 1950; M.D., Buffalo, 1954. p. 39.

* Deceased August 28, 1970.

** Sabbatical leave, 1970-71.

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- Stanley Livingston Burns, Jr., A.B., University of Vermont, 1951; M.D., 1955. pp. 35, 68, 74.
- Jackson Joshua Walter Clemmons, B.S., University of Wisconsin, 1947; M.S., 1949; Ph.D., 1955; M.D., Western Reserve, 1959. p. 43.
- Laurence Haines Coffin, B.S., Massachusetts Institute of Technology, 1955; M.D., Case Western Reserve, 1959. p. 60.
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- Joseph Clayton Foley, B.S., Middlebury, 1939; M.A., New York State College, 1940; M.D., University of Vermont, 1949. pp. 54, 73.
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- Ben Ralph Forsyth, M.D., New York University, 1957. pp. 33, 35, 73, 74.
- Thomas Chometon Gibson, B.A., Cambridge University, 1942; M.A., 1945; M.B., B.Ch., 1946; M.R.C.P. (London), 1955. p. 35.
- *Erland Cheney Gjessing, B.S., Copenhagen, 1936; M.S., Michigan State, 1938; Ph.D., Cornell, 1942. p. 29.
- Steven George Goldstein, B.A., Fairleigh Dickinson, 1962; Ph.D., Purdue University, 1967. p. 52.
- Arnold Golodetz, B.A., Harvard, 1948; M.D., University of Rochester, 1953; M.Sc., Harvard, 1969. pp. 31, 35.
- Allan Poe Gray, A.B., Cornell, 1943; A.M., 1947; Ph.D., Columbia, 1950. p. 47.
- **Mary Jane Gray, B.A., Swarthmore, 1945; M.D., Washington University (St. Louis), 1949; D.Sc. (Med.), Columbia, 1954. p. 39.
- Gareth Montraville Green, A.B., Harvard, 1953; M.D., 1957. pp. 35, 74.

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John Sherwood Hanson (National Institutes of Health Special Fellow), B.A., Yale, 1951; M.D., New York University, 1954. pp. 35, 49, 51.

William Elwin Hodgkin, B.S., Bates, 1955; M.D., University of Vermont, 1959. pp. 26, 45, 73.

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Robert Jacob Hunziker, A.B., University of Vermont, 1948; M.D., 1952. p. 54.

Robert Wells Hyde, B.S., University of Vermont, 1932; M.D., 1935. p. 52.

Edward Suter Irwin, B.S., University of Vermont, 1940; M.S., 1942; O.D., Pennsylvania State College of Optometry, 1950; M.D., University of Vermont, 1955. p. 41.

Philip Conboy Kelleher, B.S., Georgetown, 1950; M.D., 1954. p. 35.

Raymond Frank Kuhlmann, B.A., University of Wisconsin, 1936; M.D., Washington University, 1939. p. 42.

*Arthur Saul Kunin, A.B., Columbia, 1948; M.D., University of Vermont, 1952. p. 35.

Edward Anthony Kupic, B.A., University of Vermont, 1956; M.D., 1960. p. 54.

Merton Philip Lamden, B.S., University of Massachusetts, 1941; Ph.D., Massachusetts Institute of Technology, 1947. p. 29.

Hans Peter Lacqueur, B.D., University of Amsterdam, 1931; M.D., 1935. p. 52.

Frank Damron Lathrop, B.A., University of Michigan, 1929; M.D., 1934. p. 59.

Harold Leitenberg, A.B., City College of New York, 1960; Ph.D., Indiana, 1965. p. 52.

Arthur Maurice Levy, B.A., Harvard, 1952; M.D., Cornell, 1956. pp. 35, 49, 51.

Huntington Mavor, A.B., Harvard, 1948; M.D., University of Rochester, 1955. p. 38.

John Edmund Mazuzan, Jr., B.S., Boston College, 1951; M.D., University of Vermont, 1954. p. 58.

John Joseph McCormack, Jr., B.S., Boston College, 1959; Ph.D., Yale, 1964. p. 47.

Henry Lawrence McCrorey, B.S., University of Michigan, 1949; M.S., 1950; M.S., University of Illinois, 1958; Ph.D., 1963. pp. 49, 50.

R. W. Paul Mellish, M.B., B.S., St. Mary's Hospital Medical School, London University, 1945. pp. 60, 74.

William Laros Meyer, B.S., Yale, 1956; Ph.D., University of Washington, 1962. p. 29.

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- Raymond L. Milhous, M.D., University of Pennsylvania, 1961. pp. 55, 73.
- Donald Barker Miller, A.B., Johns Hopkins, 1938; M.D., 1942. p. 60.
- William Edward Mitchell, B.A., University of Wichita, 1950; M.A., Columbia, 1954; M.A., 1957; Ph.D., 1969. p. 52.
- David S. Newcombe, B.A., Amherst, 1952; M.D., McGill, 1956. pp. 26, 35.
- Mitsuo Numoto, M.D., Okayama University, 1948; Ph.D., 1953. p. 58.
- Robert Emmett O'Brien, B.S., St. Michael's, 1942; M.D., University of Vermont, 1945. p. 35.
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- Charles Alan Phillips, B.A., Yale, 1954; M.D., 1959. pp. 33, 35, 74.
- Ronald Chester Picoff, A.B., Columbia, 1956; M.D., 1960. pp. 43, 73.
- Charles Lewis Ravaris, A.B., Boston University, 1949; Ph.D., McGill, 1954; M.D., University of British Columbia, 1958. p. 52.
- Ernest (Marvin I.) Reit, B.S., Cornell, 1953; D.V.M., 1957; Ph.D., Yale, 1964. pp. 47, 73.
- John Downing Rice, Jr., B.Ch.E., New York University, 1943; M.D., Yale, 1953. p. 43.
- Benjamin Albert Ring (Neuroradiology and Radiologic Anatomy), B.S., Bates, 1942; M.D., Tufts, 1946. pp. 26, 54.
- Donald Stetson Robinson, B.Ch.E., Rensselaer Polytechnic Institute, 1949; B.Mgmt.E., 1950; M.D., University of Pennsylvania, 1959; M.S., University of Vermont, 1966. pp. 35, 47.
- Charles Brush Rust, M.D., University of Vermont, 1939. p. 42.
- *Arnold Harold Schein, B.S., College of the City of New York, 1936; Ph.D., University of Iowa, 1943. p. 29.
- Andrew George Smith, B.S., Pennsylvania State, 1940; M.S., University of Pennsylvania, 1947; Ph.D., 1950. p. 33.
- Ernest Stark, B.S., Columbia, 1933; M.D., Long Island, 1939. p. 43.
- Harold Canning Taylor, III, B.A., Yale, 1951; M.D., Columbia, 1955. p. 43.
- Christopher Marlow Terrien, M.D., University of Vermont, 1936. p. 35.
- Helene Wallace Toolan (Experimental Pathology), B.S., University of Chicago, 1929; Ph.D., Cornell, 1946. p. 43.
- David Michael Tormey, B.S., Holy Cross, 1944; M.D., New York Medical College, 1948. pp. 31, 73.
- Thomas Dermott Trainer, B.A., University of Maine, 1950; M.D., Tufts, 1954. p. 43.
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George William Welsh, B.A., Yale, 1942; M.D., Rochester, 1950. pp. 35, 73, 74.

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Robert Cummings Woodworth, B.S., University of Vermont, 1953; Ph.D., Pennsylvania State University, 1957. p. 29.

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Arthur Bergner, A.B., Cornell, 1952; J.D., 1956; M.D., New York University, 1965. p. 35.

Renée Kirsch Bergner, A.B., Cornell, 1955; M.D., Tufts, 1959. p. 45.

Richard Lloyd Bingham, B.A., University of Colorado, 1951; M.A., 1953; B.D., Union Theological Seminary, 1955; M.S.W., Denver University, 1962. p. 52.

David Kenneth Boraker, B.A., University of California at Santa Barbara, 1962; Ph.D., University of California at Los Angeles, 1967. p. 33.

Theodore Edward Braun, Jr., A.B., Princeton, 1956; M.D., University of Pennsylvania, 1960. p. 39.

*Otto A. Brusis, M.D., University of Munich, 1960. p. 31.

Clarence Edward Bunker, B.S., Maine, 1951; M.D., University of Vermont, 1962. pp. 57, 73, 74.

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- Robert Nolan Cain, B.S., University of Vermont, 1943; M.D., 1945. p. 57.
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- Robert Stuart Douglas Dean, M.B., B.Ch., University of Witwatersrand, 1954. p. 58.
- William Nelson Deane (Sociology), A.B., Gordon College, 1941; B.D., Andover-Newton Theological School, 1944; M.A., University of New Hampshire, 1948; Ph.D., Washington University, 1954. p. 52.
- Henry Meade Doremus, A.B., Dartmouth, 1937; M.S., Cornell, 1938; D.V.M., 1946. pp. 47, 73.
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- John Willard Frymoyer, B.A., Amherst, 1959; M.S., University of Rochester, 1964; M.D., 1964. p. 42.
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- Stokes Gentry, B.A., Swarthmore, 1951; M.D., Temple, 1955. p. 45.
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- Richard Herron Goldsborough, B.S., University of Pittsburgh, 1950; M.D., 1951. p. 57.
- Antonio Johnson Gomez, B.A., Ateneo de Manila (Philippines), 1955; M.D., University of Santo Tomas (Philippines), 1960. p. 38.
- Howard Theodore Guare, M.D., University of Vermont, 1934. p. 54.
- Robert Cesare Guiduli, B.S., University of Vermont, 1954; M.D., 1961. p. 41.
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- Carleton Raymond Haines (Oncology), B.S., University of Vermont, 1941; M.D., 1943. p. 57.
- William Halpern, B.E.E., University of the City of New York, 1944; M.Sc., Rutgers, 1948; M.S., Stanford, 1966; Ph.D., University of Vermont, 1969. p. 49.
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- Irwin Seymour Kaye, A.B., Columbia, 1956; M.D., New York Downstate Medical Center, 1960. p. 43.
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- John Clifford Lantman, B.S., University of Vermont, 1948; M.D., 1951. pp. 31, 35.
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- James Frederick Madison, A.B., Franklin and Marshall, 1952; M.D., Temple, 1956. p. 36.
- Carlton Dean Marshall, M.D., University of Vermont, 1949. p. 52.
- Thomas Williams Martenis, A.B., Haverford, 1956; M.D., University of Pennsylvania, 1960. p. 35.
- *Christopher Patrick McAree, M.B., B.Ch., B.A.O., Queens (Ireland), 1956; Diploma Psychological Medicine, Royal College of Physicians and Surgeons (London), 1961; Diploma Psychiatry, McGill, 1962. p. 52.
- James Bishop McGill, B.S., University of Vermont, 1944; M.D., 1946. p. 57.
- John Marshall McGinnis, B.A., Yale, 1956; M.D., University of Vermont, 1961. p. 59.
- Gerald Francis McGinniss, A.B., St. Anselm's, 1946; M.D., University of Vermont, 1950. p. 52.
- Marion Claire McKee, B.A., Hunter, 1949; M.D., Temple, 1953. p. 38.
- Edward Douglas McSweeney, Jr., A.B., University of Vermont, 1951; M.D., University of Ottawa, 1958. p. 57.
- Harold Edward Medivetsky, B.S., University of Vermont, 1929; M.D., 1932. p. 35.
- Cornelius Irving Meeker, B.A., Middlebury, 1950; M.D., Cornell, 1954. p. 39.
- David A. Miller, B.S., Indiana University, 1952; M.S., University of Chicago, 1957. pp. 63, 73.
- John Hollister Milne, A.B., Harvard, 1952; M.D., 1956. p. 35.
- Howard Jay Mindell, M.D., University of Illinois, 1962. p. 54.
- Anthony Benedict Minnefor, B.A., Seton Hall, 1959; M.D., Seton Hall, 1963. p. 45.
- Thomas John Moehring, B.S., Fairleigh Dickinson, 1961; M.S., Rutgers, 1963; Ph.D., 1965. p. 33.

* Sabbatical leave, 1970-71.

Maureen Katherine Molloy, B.A., Barnard, 1953; M.D., State University of New York, 1957; M.S.H., Harvard, 1964. p. 42.

Maurice Edward Mongeon, B.S., St. Michael's, 1954; M.D., University of Vermont, 1959. p. 35.

John Gilvler Morgan, B.Sc., University of Wales, 1950; M.B., B.Ch., Welsh National School of Medicine, 1953; M.D., F.F.A., R.C.S., 1959. p. 58.

Paul Michael Morrisseau, B.A., University of Vermont, 1960; M.D., 1964. p. 61.

Michael Jerome Moynihan, A.B., Holy Cross, 1956; M.D., Yale, 1960. pp. 35, 74.

Alexander Nies, B.A., Alfred University, 1952; M.D., McGill, 1958. pp. 52, 74.

Charles Pryor Novotny, B.S., Wisconsin State College, 1959; Ph.D., University of Pittsburgh, 1965. p. 33.

Donald Clark Oliveau, B.S., Antioch, 1958; M.D., University of Rochester, 1962. p. 52.

Edwin Mattson Paxson, A.B., Swarthmore, 1950; M.D., Jefferson, 1954. p. 45.

Richard Edward Pease, M.D., University of Vermont, 1949. p. 58.

Carol Fenton Phillips, B.S., Douglass, 1954; M.D., Yale, 1958. p. 45.

David Bogart Pilcher, B.A., Amherst, 1956; M.D., University of Rochester, 1961. p. 57.

Donald Lee Rife, B.A., Yale, 1957; M.D., Harvard, 1961. p. 52.

Carl Frederick Runge, B.S., Fordham, 1958; M.D.C.M., McGill, 1962. p. 35.

Joseph Nicholas Russo, M.D., University of Vermont, 1945. p. 39.

Richard Alan Ryder, B.S., University of Rochester, 1956; M.D., Columbia, 1963. p. 35.

Wadi Sawabini (Oral Hygiene and Dental Medicine), D.D.S., American University of Beirut, 1940. p. 35.

Robert Newton Saxby, B.S., University of Vermont, 1937; M.D., 1941. p. 54.

Warren Ira Schaeffer, B.S., Rutgers, 1960; M.S., 1962; Ph.D., 1964. p. 33.

Peter Schofield, B.Sc., University of Oxford, 1960; Ph.D., 1963. p. 29.

Joseph Donald Schultz, B.S., Ursinus College, 1950; M.D., Jefferson, 1955. p. 35.

Roberta B. Schwalb, B.S., University of California, 1954; M.A., Teachers College, Columbia, 1956. p. 39.

James Douglass Sharpe, B.S., New York University, 1933; M.D., Columbia, 1937. p. 52.

William Ireland Shea, A.B., Holy Cross, 1936; M.D., University of Vermont, 1940. p. 57.

Tamotsu Shinozaki, M.D., Okayama University, 1958. p. 58.

- James Edwin Simpson, B.S., University of Vermont, 1941; M.D., 1943. p. 42.
- Warren Frederick Sims, Jr., B.S., University of Minnesota, 1956; M.D., 1960. p. 39.
- Dennis Bernard Smith, B.A., Wesleyan, 1961; M.D., Albany Medical College, 1965. p. 38.
- James Ward Stackpole, B.A., Bowdoin, 1950; M.D., University of Vermont, 1956. p. 45.
- William Hayden Stouch, B.A., Princeton, 1957; M.D., Columbia, 1961. p. 35.
- David Latham Taber, M.D., Long Island, 1946. p. 39.
- Richard Laurence Tannen, M.D., University of Tennessee, 1960. p. 35.
- Louis George Thabault, M.D., University of Vermont, 1930. p. 57.
- Wilfred Louis Thabault, B.S., St. Michael's, 1943; M.D. University of Vermont, 1947. p. 39.
- John Walter Thanassi, B.A., Lafayette, 1959; Ph.D., Yale, 1963. p. 29.
- Gordon Clark Gregory Thomas, B.A., M.D., University of Virginia, 1944; M.S., 1949. p. 52.
- Ruth Fimbel Thomson, B.S., Douglass College, 1938; M.S., Columbia, 1953. p. 52.
- James Martin Todd, L.R.C.P., M.R.C.S., Leeds University, 1958; D.P.M., 1963; Ph.D., University of Vermont, 1968. p. 52.
- James Michael Toolan, A.B., St. Peter's College, 1943; M.D., Cornell, 1947. p. 52.
- John Cushman Twitchell, B.S., University of Vermont, 1949; M.D., 1953. pp. 31, 35.
- Henry Carmer Van Buren, B.A., University of Vermont, 1950; M.D., 1954. p. 35.
- Lelon Ashley Weaver, Jr. (Psychology), A.B., University of Vermont, 1943; M.A., Columbia, 1947; Ph.D., Purdue, 1957. p. 52.
- Laura Brooks Weed, M.D., Yale, 1947. p. 35.
- Thomas Allen Weidman, B.S., Illinois Wesleyan, 1955; M.S., University of Illinois, 1963; Ph.D., University of Kansas, 1968. p. 26.
- Sheldon Weiner, B.A., University of Vermont, 1960; M.D., 1964. p. 52.
- Emma Franca Wennberg, B.Sc., McGill, 1957; M.D., 1961. p. 25.
- John Egmont Wennberg, B.A., Stanford, 1956; M.D., McGill, 1961; M.P.H., Johns Hopkins, 1966. pp. 35, 63, 73.
- David Whitehorn, B.A., University of Michigan, 1963; Ph.D., University of Washington, 1968. p. 49.
- Elbert Benjamin Whorton, Jr., B.S., Baylor, 1962; M.S., Tulane, 1964; Ph.D., Oklahoma University, 1968. p. 31.

James Matthew Willard, A.B., St. Michael's College, 1961; Ph.D., Cornell, 1967. p. 29.

Lewis Ragon Willmuth, B.S., University of Arkansas, 1963; M.D., 1963. p. 52.

William Gerard Winters, A.B., Cornell, 1955; M.D., 1959. p. 35.

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INSTRUCTORS

Charles Peter Albright, B.A., Allegheny College, 1949; M.D., Cornell, 1953. p. 35.

David Bruce Bamber, M.B., B.S., London University, 1965; F.F.A.R.C.S., Royal College of Surgeons, 1969. p. 58.

Thomas Clinton Bates, B.A., Syracuse, 1958; M.D., McGill, 1962. p. 45.

Roy Watson Bell, M.B., Ch.B., Edinburgh University, 1956. p. 58.

Deweese Harold Brown, B.S., Donora, 1947; M.D., University of Vermont, 1954. pp. 31, 35.

Gerald Stephen Brown, B.A., University of California at Los Angeles, 1959; M.D., Ottawa, 1963. p. 54.

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Francis Arnold Caccavo, A.B., Syracuse, 1940; M.D., University of Vermont, 1943. p. 57.

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Edward Byington Crane, A.B., Dartmouth, 1945; M.D., University of Vermont, 1947.

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Elizabeth Herta Forsberg, M.D., Erlanger (Germany), 1947. p. 52.

- Elizabeth Held Forsyth, B.A., Mount Holyoke, 1953; M.D., Yale, 1957. p. 52.
- Edward Esau Friedman, A.B., Norwich, 1942; M.D., University of Vermont, 1950. pp. 35, 45.
- Antonio Isaias German, B.S., Normal School, Trujillo City, 1946; M.D., University of Santo Domingo, 1952; M.D., University of Vermont, 1960. p. 43.
- Cornelius O. Granai, Jr., A.B., Syracuse, 1948; M.D., University of Vermont, 1952. p. 39.
- Duane Edgar Graveline, B.S., University of Vermont, 1952; M.D., 1955; M.P.H., Johns Hopkins, 1958. p. 35.
- David Henry Gray, B.A., Princeton, 1949; M.D., Harvard, 1953. p. 31.
- Burt Benjamin Hamrell, M.D., University of Illinois, 1962. p. 49.
- James Lorimer Holm, A.B., Augustana College, 1956; M.D., Harvard Medical School, 1960. p. 54.
- Anne Dodge Hooper, A.B., Washington University, 1947; M.D., 1952. p. 43.
- Yoshinori Ishikawa, Ph.D., Hokkaido (Japan), 1961. p. 29.
- Warner Edrick Jones, B.S., New Hampshire, 1957; M.D., Tufts, 1961. p. 35.
- Hyman Bernard Levine (Family Medicine), B.S., University of Vermont, 1930; M.D., 1939. pp. 31, 35.
- Murdo Glenn MacDonald, B.S., University of Vermont, 1948; M.D., 1951. p. 49.
- Robert Livingston Massanneau, M.D., New York Medical College, 1949. p. 35.
- Kenneth Lincoln McKinney, Jr., M.D., University of Cincinnati, 1964. p. 39.
- Josephine Ann Morgan, D.N., London University, 1968. p. 39.
- Richard Eugene Murphy, B.S., Georgetown University, 1958; M.D., 1962. p. 39.
- John Joseph Murray, A.B., Boston College, 1958; M.D., University of Vermont, 1963. p. 45.
- Richard Milton Narkewicz, A.B., St. Michael's, 1956; M.D., University of Vermont, 1960. p. 45.
- Clare Marshall O'Shea, B.A., Barnard, 1944; M.D., Harvard, 1949. p. 52.
- David Raymond Park, B.A., Geneva, 1959; M.D., University of Rochester, 1963. pp. 35, 74.
- David Llewellyn Perkins, B.S., Tufts, 1961; M.D., University of Vermont, 1965. p. 58.
- William Arthur Pratt, B.S., University of Vermont, 1941; M.D., 1943. p. 35.
- Dirk Romeyn, B.S., Tufts, 1955; M.D., Boston University, 1962. p. 39.
- William John Ryan, B.S., Manhattan College, 1959; M.D., New York University, 1963. p. 35.
- Finley Alexander Seagle, B.S., University of Tennessee, 1957; M.D., 1961. p. 35.

Felix Sommer, M.D., University of Graz, Austria, 1954; Diploma Psychiatry, McGill, 1962. p. 52.

Paul Byron Stanilonis, B.S., Springfield College, 1961; M.D., University of Vermont, 1965. pp. 35, 74.

John Newhall Stark, B.S., Northwestern, 1947; M.D., Albany, 1951. p. 52.

Caryl J. Stewart, B.A., Minnesota, 1953; M.S.W., McGill, 1963. p. 63.

Donald Reed Swartz, A.B., Earlham College, 1959; M.D., West Virginia University, 1963. pp. 45, 74.

John Stetson Tanner, B.S., Colgate, 1951; M.D., Albany Medical College, 1955. p. 45.

John Yewdall Trumper, B.A., Haverford, 1954; M.D., University of Pennsylvania, 1958. p. 45.

Louis Joseph Wainer, B.A., McGill, 1929; M.D., 1933. p. 52.

Howard Alan Walker, B.A., University of Vermont, 1960; M.D., 1963. p. 35.

Maurice James Walsh, B.S., University of Vermont, 1936; M.D., 1939, pp. 31, 35.

Arthur Dave Wolk, B.S., University of Vermont, 1941; M.D., 1943. p. 45.

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Harry Livingston Colombo, B.S., University of Vermont, 1935; M.D., 1938. p. 35.

William Henry Heininger, M.D., University of Vermont, 1939. p. 35.

Shigemasa Ikeda, M.D., Okayama University, 1965. p. 58.

George Edward Lucia, Jr., B.Sc., St. Michael's College, 1954; M.D., McGill, 1959. p. 54.

John Louis Saia, B.S., University of Vermont, 1931; M.D., 1934. p. 35.

Namik Kemal Uzsoy, B.Sc., Ataturk Lyceum (Turkey), 1942; M.D., University of Istanbul, 1948. p. 35.

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MEDICAL LIBRARY

George Hammond Hunter, B.A., University of Washington, 1949; B.L.S., 1950; M.A., 1963. Medical Librarian. pp. 62, 73, 74.

Ellen Gillies, B.S. in L.S., Simmons College, 1939. Assistant Librarian. p. 62.

Gail Weinsieder, B.L.S. Regional Medical Librarian. p. 62.

OFFICE OF INSTRUCTIONAL RESOURCES

Robert Birchall Lorenz, B.S., State College, Pa., 1960; M.S., Syracuse University, 1961; Ph.D., 1965. Director. pp. 23, 74.

Francis Charles Mallory, R.B.P. Board of Registry, Biological Photographic Association, 1966. Director of Medical Photography. p. 23.

Peter Collins Huber, Assistant Photographer. p. 23.

Mary P. Mather, Instructional Television Specialist. p. 23.

Gary J. Nelson, B.S., University of Illinois, 1970. Medical Illustrator. p. 23.

Wing Morrison Woon, Medical Photographer. p. 23.

REGIONAL MEDICAL PROGRAM

Richard E. Bouchard, M.D., University of Vermont, 1949; M.S., 1951. Chairman, Progressive Coronary Care Project. p. 63.

Otto A. Brusi, M.D., University of Munich, 1960. Director of Heart Inventory Project. p. 63.

Donald John Danielson, B.S., Wisconsin State, 1959; M.H.A., University of Michigan, 1966. p. 63.

David Allison Miller, M.S., Indiana University, 1952; M.S., University of Chicago, 1957. Assistant Dean for Comprehensive Regional Medical Planning. pp. 63, 73.

Marjorie Porter, B.S., Columbia Presbyterian School of Nursing, 1953; Ed.M., Columbia, 1965. Program Developer. p. 63.

John Senning, B.S., State University of New York, 1967. Mathematician. p. 63.

Caryl J. Stewart, B.A., University of Minnesota, 1953; M.S.W., McGill, 1963. Program Manager. p. 63.

Julian A. Waller, A.B., Columbia, 1953; M.D., Boston University, 1957; M.P.H., Harvard, 1960. p. 63.

Peter M. Watts, B.E.E., Rensselaer Polytechnic Institute, 1953. Project Engineer. p. 63.

John Egmont Wennberg, B.A., Stanford University, 1956; M.D., McGill, 1961; M.P.H., Johns Hopkins, 1966. Director of Program. pp. 63, 73.

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Herman Conrad Herrlich, B.S., Rensselaer Polytechnic Institute, 1938; M.S., University of California, 1949; Ph.D., Northwestern, 1953. p. 35.

Patricia Katherine Hickox, B.A., Middlebury, 1967. p. 63.

Shigemasa Ikeda, M.D., Okayama University, 1965. p. 58.

Yoshinori Ishikawa, B.S., Hokkaido University, 1951; Ph.D., 1961. p. 29.

George Galli Lucchina, B.S., University of Vermont, 1955; M.D., 1958; M.S., 1959; Ph.D., 1965. p. 49.

Jan Roger Schultz, B.S., University of Illinois, 1964; M.S., 1966. p. 35.

ADMINISTRATIVE ASSOCIATES

Stephen P. Adams, B.A., Middlebury College, 1963. Department of Medicine.

Gerald Francis Costanza, B.B.A., St. Bonaventure University, 1967. Pathology.

A. John Mahoney, B.A., University of Massachusetts, 1958. Department of Obstetrics and Gynecology.

James P. Reuschel, B.A., University of Vermont, 1965. Department of Surgery.

Gordon Ray Wilkins, B.A., University of Vermont, 1967. Dean's Office.

TUTOR

Albert G. Kasenter, Jr. (Radiologic Physics), A.B., Thiel College, 1964. p. 54.

LECTURER

John F. Harwood (Radiologic Safety), B.S., University of Vermont, 1951. p. 54.

Louis M. Izzo (Radiologic Physics), B.A., University of Vermont, 1968; M.S., University of Miami, 1969. p. 54.

Graduates, May 1970 and Internship Appointments

- Michael B. Andorsky, B.A., Columbia-Presbyterian Hospital, New York, N.Y.
- Raymond J. Anton, A.B., Hartford Hospital, Hartford, Conn.
- Edward N. Bailey, B.A., Strong Memorial Hospital, Rochester, N.Y.
- Anthony Raymond Bazzocchi, Jr., B.S., Jefferson Medical College Hospital, Philadelphia, Pa.
- John F. Beamis, Jr., B.S., Charity Hospital, New Orleans, La.
- Laurence W. Betts, B.A., Albany Hospital, Albany, N.Y.
- Alan B. Bulotsky, B.A., Montreal Children's Hospital, Montreal, Canada
- Robert A. Burton, Jr., A.B., Washington Hospital, Washington, Pa.
- Philip M. Buttaravoli, B.A., Santa Clara Hospital, San Jose, Calif.
- Elizabeth J. M. Carter, A.B., Madigan General Hospital, Seattle, Wash.
- Preston L. Carter, A.B., Madigan General Hospital, Seattle, Wash.
- Joseph I. Chartor, A.B., University of Virginia Hospital, Charlottesville, Va.
- David H. Cheney, B.A., Fitzsimmons General Hospital, Denver, Colo.
- Thomas F. Claffey, B.S., Hartford Hospital, Hartford, Conn.
- Joseph V. Copulsky, B.A., Beth Israel Hospital, New York, N.Y.
- Joseph M. DeCenzo, B.A., Presbyterian-St. Luke's Hospital, Chicago, Ill.
- Vincent A. DeCesaris, B.A., Presbyterian-Pacific Medical Center, San Francisco, Calif.
- George S. Durisek, B.S., General Rose Memorial Hospital, Denver, Colo.
- William A. Fajman, A.B., University of Oregon Hospitals, Portland, Ore.
- Richard M. Faraci, B.S., Hartford Hospital, Hartford, Conn.
- Robert V. Fernandez, B.S., St. Elizabeth's Hospital, Boston, Mass.
- Christopher R. Flory, B.S., Rochester General Hospital, Rochester, N.Y.
- Eugene F. Fuchs, B.S., B.S., University of Oregon Hospitals, Portland, Ore.
- Richard M. Gendron, A.B., Portsmouth Naval Hospital, Portsmouth, Va.
- Norbert J. Gilmore, B.A., Ph.D., Royal Victoria Hospital, Montreal, Canada
- Thomas J. Grady, A.B., St. Elizabeth's Hospital, Boston, Mass.

- James R. Green, A.B., Hospital of University of Pennsylvania, Philadelphia, Pa.
- Theodore H. Harwood, Jr., B.A., University of Kansas Medical Ctr., Kansas City, Kan.
- David C. Hinsman, B.A., State University of Upstate Medical Center, Syracuse, N.Y.
- Peter D. Hoden, B.A., Rhode Island Hospital, Providence, R.I.
- John E. Hunt, Jr., B.S., Hospital of University of Pennsylvania, Philadelphia, Pa.
- Kenneth I. Hunt, B.A., University of Washington Hospitals, Seattle, Wash.
- Frank W. Kilpatrick, A.B., North Carolina Memorial Hospital, Chapel Hill, N.C.
- Michael E. Lupo, A.B., St. Mary's Hospital, San Francisco, Calif.
- Keith N. Megathlin, A.B., M.S., Medical College of Virginia Hospital, Richmond, Va.
- Walter A. Minaert, Jr., A.B., St. Joseph's Hospital, Syracuse, N.Y.
- Jeffrey C. Morse, A.B., Maine Medical Center, Portland, Me.
- Joel H. Mumford, B.A., Chelsea Naval Hospital, Boston, Mass.
- Andrew D. Parent, A.B., University of Texas Medical Branch Hospital, Galveston, Tex.
- Lawrence Perlmutter, B.A., Albany Hospital, Albany, N.Y.
- Karen Preis, B.A., Children's Hospital Medical Center, Boston, Mass.
- Darryl L. Raszl, B.A., Medical Center Hospital of Vermont, Burlington
- Martin J. Rosenstein, A.B., University Hospitals, Cleveland, O.
- William N. Rush, B.A., Fitzsimmons General Hospital, Denver, Colo.
- Joel A. Sabeau, A.B., University of New Mexico Hospitals, Albuquerque, N.M.
- Arthur J. Sakowitz, B.A., Meadowbrook Hospital, East Meadow, L.I., N.Y.
- Steven H. Sherman, B.A., Montefiore Hospital, New York, N.Y.
- David A. Simundson, B.A., B.S., Charity Hospital, New Orleans, La.
- Norman J. Snow, B.A., University of Virginia, Charlottesville, Va.

Graduates, May 1970 and Internship Appointments

Thomas I. Soule, B.A., Duke Medical Center, Durham, N.C.

David C. Staples, B.S., Letterman General Hospital, San Francisco, Calif.

Daniel C. Sullivan, A.B., Bethesda Naval Hospital, Bethesda, Md.

Joel P. Sussman, B.A., Long Island Jewish Hospital, New Hyde Park, N.Y.

Normand F. Tremblay, A.B., Wilford Hall Air Force Hospital, San Antonio, Tex.

Judith H. Tyson, A.B., M.A., Roosevelt Hospital, New York, N.Y.

Louis Vito, A.B., Georgetown University-D.C. General Hospital Washington, D.C.

Clyde A. Wright, B.S., Good Samaritan Hospital, Phoenix, Ariz.

William J. Young, A.B., Maine Medical Center, Portland, Me.

Flying Scotts at Malletts Bay



Register, 1970-71

FOURTH YEAR:

Alan Ray Alexander, B.A., Univ. Mass;
Medford, Mass.
Robert Paul Andelman, A.B., Brandeis;
Newton, Mass.
Jacob Raphael Aslanian, A.B., Harvard;
Waltham, Mass.
Alan Dwight Ayer, B.A., Bowdoin;
S. Portland, Me.
Charles Maurice Belisle, B.A.,
Univ. Me.; Biddeford, Me.
William Donald Belville, B.A., Norwich;
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Neal Marshall Borenstein, A.B.,
Univ. Pa.; Waban, Mass.
Patrick Joseph Brannon, B.A.,
Providence Coll.; Providence, R.I.
James Atwood Brennan, B.S., Tufts;
Weston, Conn.
Ernest Gregory Brown, B.S., Univ. Me.;
Eliot, Me.
David John Coppe, B.S., Holy Cross;
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Robert E. Creutz, B.S., Stonehill Coll.;
Abington, Mass.
John Lawrence DeBoer, B.A., UVM;
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Robert John Englund, A.B., Upsala;
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Roy Victor Erickson, A.B., Dartmouth;
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SUNY Buffalo; Claremont, N.H.
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Ricker, Colby; Houlton, Me.
Clayton Stanley Hitchins, III, B.A.,
Univ. Pa.; Hamden, Conn.
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rimack, Univ. Ill; N. Tewksbury, Mass.
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Lorraine Adele Kretchman, B.A.,
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Philip Allan Levin, B.A., UVM;
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Richard Bowdoin Lilly, Jr., A.B.,
Bowdoin; Weston, Mass.
Carol Collin Little, A.B.,
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Notre Dame; Rochester, N.Y.
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Boston Coll.; Rye, N.H.
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David Allan Peura, B.A., UVM;
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Brandeis; Milton, Mass.
Dennis Arthur Savoie, A.B.,
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Ohio Wesleyan; Storrs, Conn.
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Howard David Solomon, B.A., UVM;
Burlington
Charles William Stratton, B.S., Bates;
Lee, Mass.
Arthur Kenneth Sullivan, B.A.,
Eastern Nazarene; Quincy, Mass.
Paul Francis Walker, A.B., St. Anselm's;
Reading, Mass.
Lester Arthur York, III, A.B.,
Holy Cross; Portland, Me.

THIRD YEAR:

Jeffrey Robert Alpert, B.A., UVM;
Lakewood, N.J.
John Eliot Bassett, A.B., Harvard;
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Richard Michael Beloin, B.A., UVM;
Canaan
Joseph Charles Benedict, B.S.,
US Naval Academy; Burlington

William Eddy Bennett, B.A., Univ. Me.;
 Lincoln, Me.
 Richard Samuel Bierstock, B.S., Lehigh;
 Mahopac, N.Y.
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 Robert Anthony Bonanno, B.S.,
 Boston Coll.; Arlington, Mass.
 James Harold Bress, B.S., Tufts;
 Portland, Me.
 Douglas Williams Brown, A.B.,
 Bowdoin; Waterville, Me.
 John Edward Butler, B.A., St. Peter's;
 Toms River, N.J.
 Adrienne Louise Buuck, A.B., Regis;
 Arlington, Mass.
 Phillip Roe Canfield, B.A., UVM;
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 Holy Cross; Haverhill, Mass.
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 Anthony Henriques DeBarros, B.S.,
 Stonehill; New Bedford, Mass.
 Delores Marie Doherty, B.S.,
 Rensselaer, Albany Med.; Burlington
 Mark Averill Donovan, B.A., Williams;
 Bennington
 Mark Lloyd Dubay, B.A., Univ. Me.;
 Old Town, Me.
 Charles Martin Elboim, A.B.,
 Boston Univ.; Cranston, R.I.
 John Hall Elliott, B.A., Tufts;
 St. Johnsbury
 Alan Brian Feltmarch, B.S., M.A.,
 Bates, Univ. Me.; Gardner, Mass.
 William Francis Fitzpatrick, B.A.,
 Dartmouth; Plattsburgh, N.Y.
 Maurice Robert Gagnon, A.B.,
 Holy Cross; Nashua, N.H.
 Richard Carmine Gazzo, A.B.,
 Providence Coll.; Providence, R.I.
 Leo Charles Ginns, B.A., Univ. Mass;
 Worcester, Mass.
 Stuart McLaren Graves, A.B., Colgate;
 Schenectady, N.Y.
 Douglas Herman Greenfield, B.A.,
 Queens Coll.; Flushing, N.Y.
 Ronald Paul Hantman, A.B.,
 Holy Cross; Norwich, Conn.
 Robert Ronald Holland, B.A.,
 Air Force Academy, UVM; Essex Jct.
 Richard George Houle, B.A., UVM;
 Burlington
 Daniel Katcher, B.S.,
 Univ. Pittsburgh; Manchester Depot
 Vernon Starr Kellogg, B.A., UVM;
 Stratford, Conn.
 Michael Lee Kropsky, B.A., UVM;
 Burlington
 James Helmut Leibfarth, A.B., Clark;
 Swedesboro, N.J.
 John Charles Lepage, B.A., UVM;
 Burlington
 Donald Stanley Levi, A.B., Bowdoin;
 Portland, Me.
 Ronald Alan Marvin, A.B., Princeton;
 Wayland, Mass.
 Richard Craig McGinn, B.A., Williams;
 Brattleboro
 Donald Leon McGuirk, Jr., B.A.,
 Holy Cross; Stoughton, Mass.
 Albert August Miller, B.A., Williams;
 Barre
 Donald Barker Miller, Jr., B.A., UVM;
 Burlington
 James Vincent Mogan, A.B.,
 Holy Cross; Newton, Mass.
 Richard Alden Moriarty, A.B., Colby;
 Weston, Mass.
 Donald Scott Murinson, A.B., Bowdoin;
 Portland, Me.
 Mary Elizabeth Norris, B.A.,
 Univ. Conn.; W. Hartford, Conn.
 William Michael Notis, A.B.,
 Holy Cross; Framingham, Mass.
 Catherine Ann Onorowski, A.B.,
 St. Anselm's; Nashua, N.H.
 John Joseph Oprendeck, Jr., B.S., UVM;
 Burlington
 Russel Smith Page, III, A.B., Harvard;
 Chevy Chase, Md.
 Douglas Jay Pitman, B.A., Amherst;
 Port Washington, N.Y.
 Douglas Edward Provost, B.A., UVM;
 Burlington
 Howard David Reines, A.B., Cornell;
 Haverhill, Mass.
 Paul Joseph Romanelli, A.B.,
 Providence; Cranston, R.I.
 Robert Henry Ryan, B.S., Notre Dame;
 Montpelier
 Bruce Berner Shafiroff, A.B.,
 Middlebury; Flushing, N.Y.
 James Freeman Shaw, A.B., Earlham;
 American Embassy, Tokyo, Japan

Barbara Wolk Stechenberg, A.B.,
 Brandeis; Rutland
 Richard Eric Stutt, B.A., UVM;
 Brooklyn, N.Y.
 Richard Lionel Teixeira, B.A.,
 Univ. Mass.; Fall River, Mass.
 Gary Leroy Towle, A.B., Bowdoin;
 Portland, Me.
 John Roger Waterman, B.A.,
 Univ. Mass.; Longmeadow, Mass.

SECOND YEAR:

Richard Randall Adams, B.A., UVM;
 Framingham, Mass.
 Ralph Stephen Albertini, A.B.,
 Holy Cross; Marlboro, Mass.
 William Donald Barrett, B.A., UVM;
 Burlington
 Robert Allen Beekman, B.S.,
 Univ. Mass.; Amherst, Mass.
 John Francis Berry, Jr., B.A., UVM;
 Burlington
 Ralph Lincoln Berry, III, A.B.,
 Bowdoin; Burlington
 Robert Joseph Bertagna, Jr., B.S., Tufts;
 Arlington, Mass.
 James Marinos Betts, B.A., UVM;
 Bennington
 John Alfred Bisson, A.B., Dartmouth;
 Plymouth, N.H.
 George Louis Boccia, B.S., Boston Coll.;
 Claremont, N.H.
 Cressey Wayne Brazier, A.B.,
 Ohio State; Brooks, Me.
 David Leigh Bronson, B.A., Univ. Me.;
 Bath, Me.
 Jeffrey Barnett Brown, B.A., UVM;
 Woodbury, N.Y.
 Charles Patrick Buckley, Jr., B.A.,
 UVM; Wells
 Paul William Butterfield, B.A., UVM;
 Burlington
 Rocco Douglas Cassone, A.B.,
 Columbia; Stamford, Conn.
 Philip Louis Cohen, B.A., Air Force
 Academy, UNH, Boston Univ.;
 Claremont, N.H.
 Edward John Collins, Jr., B.A.,
 Providence; Pawtucket, R.I.
 Russell Paul Davignon, B.S.,
 Providence; New Bedford, Mass.
 Gabriel Anthony DeCandido, B.A.,
 Fordham; Park Ridge, N.J.
 Phillip Harland Deos, B.A., Univ. Colo.;
 Sacramento, Calif.

Liam Sean Duerr, B.S., Notre Dame;
 Mystic, Conn.
 Merrill Hugh Epstein, B.A., UVM;
 Burlington
 Richard Harry Feins, B.A., Dartmouth;
 Manchester, N.H.
 John Gerard Finn, Jr., A.B.,
 St. Anselm's; Manchester, N.H.
 David Peter Flavin, A.B., Holy Cross;
 Biddeford, Me.
 Brian Leslie Gardner, B.A., M.S.,
 Univ. Me.; Richmond, Me.
 Stephen Emilio Gianarelli, B.S., B.A.,
 UVM, Mass. Coll. Optometry; Barre
 Eliot Alan Goldings, A.B., Brandeis;
 Brighton, Mass.
 Robert David Gordon, B.A., UVM;
 Winooski
 Catherine Grace Hawthorne, B.A.,
 UVM; Springfield
 James Stanley Heath, A.B.,
 St. Anselm's; Manchester, N.H.
 Victor Charles Herson, A.B., Colgate;
 New Rochelle, N.Y.
 James Gregory Howe, B.A., UVM;
 Newport
 Charles Gadue Hubbell, B.A., UVM;
 Bennington
 Lawrence Colwyn Hurst, B.A., UVM;
 Lenox, Mass.
 Richard Michael Ingerowski, A.B.,
 Bowdoin; Portland, Me.
 Lee David Jacobs, B.A., UVM;
 St. Albans
 Patrick Francis Keenan, B.A., UVM;
 Rutland
 Marc Ira Keller, B.A., UVM;
 Pawtucket, R.I.
 Joseph Patrick Kelly, A.B., Harvard;
 N. Easton, Mass.
 Brock Treverton Ketcham, B.A., UVM;
 Whiting
 Darwin Ray Kuhlmann, B.A., UVM;
 S. Burlington
 Joseph Richard Lacy, B.A.,
 Univ. Conn.; E. Windsor Hill, Conn.
 William Richard Lafleur, B.A.,
 Univ. Mass.; Fairview, Mass.
 John Armstrong Leppman, B.A.,
 Johns Hopkins; Moorestown, N.J.
 Lawrence Connor Maguire, B.S., Tufts;
 W. Roxbury, Mass.
 Nicola Joseph Miragliuolo, B.A.,
 Providence; Bangor, Me.
 Alan Paul Moss, B.A., UVM;
 Bennington

Lawrence Joel Moss, B.A.,
Univ. Rochester; Bennington
David Alan Novis, B.A., Knox;
Manhasset, N.Y.
Irvin Louis Paradis, B.A., UVM;
Fort Kent, Me.
Suzanne Jane Parker, Boston Univ.,
Univ. Mass.; Newport
Richard Eberhardt Paulus, B.A., UVM;
Burlington
Martin Ralph Phillips, A.B.,
Boston Univ.; W. Roxbury, Mass.
Victor Joseph Pisanelli, Jr., B.A., UVM;
Rutland
Bernard Thomas Price, B.S., Fairfield;
S. Portland, Me.
Joseph Regis Quinn, B.A., UVM;
Rutland
Stephen Douglas Reed, A.B., Bowdoin;
Newcastle, Me.
Timothy Norwood Rowland, B.A.,
UVM; Woodstock
James Marshall Salander, B.S.,
U.S. Mil. Academy; Rutland
Susan Alice Shubert, B.A., Univ. Me.;
Bangor, Me.
Sumner Andrew Slavin, A.B., Harvard;
Chestnut Hill, Mass.
Daniel Louis Spada, A.B., Holy Cross;
Cromwell, Conn.
Gregory Coates Starr, B.S.,
Boston Coll.; Worcester, Mass.
Leon Stechenberg, A.B., Brandeis;
Bayside, N.Y.
Rodney Joseph Taylor, B.A.,
Northeastern; Barnet
Richard Alexander Todd, B.A., UVM;
Springfield
Guy Thomas Trono, Jr., B.S., Union;
Ft. Plain, N.Y.
Kenneth Lee Varney, B.A., UVM;
Essex Jct.
Timothy John Wargo, A.B.,
St. Michael's; Burlington
David Bernes Werner, A.B., Colgate;
Bath, N.Y.
Lloyd Edward Witham, A.B.,
Boston Univ.; Billerica, Mass.
Charles James Wolcott, II, B.S.,
Williams; Underhill Ctr.
Stephen John Woodruff, B.A.,
Boston Coll., UVM; Barre

FIRST YEAR:

Jeffrey Stockwell Allen, B.S.,
USAF Academy; Brattleboro

James Allen Auerbach, B.S.,
Univ. Mass.; Medford, Mass.
Douglas Arnold Bacon, B.A.,
Swarthmore; Colebrook, N.H.
Ernest Lewis Bayer, B.S., Univ. Mich.,
Univ. Wisc.; New Britain, Conn.
Edward Andrew Blanchette, B.A.,
Boston Univ.; Nashua, N.H.
Pamela Evelina Buttura, B.A., UVM;
Barre
Henry Blair Byrum, Jr., B.A.,
Providence Coll.; Providence, R.I.
Christopher Russell Chase, B.A., UVM;
Burlington
Thomas Paul Clairmont, Jr., B.A.,
UVM; Burlington
Douglas Andrew Deaett, B.A., UVM;
Brattleboro
Denise Emilie Duff, B.S., Tufts;
Haverhill, Mass.
Douglas Manson Eddy, B.A., UVM;
Beverly, Mass.
David Walter Edsall, B.A., UVM;
Windsor
Christopher Rhodes Field, B.A., UVM;
Brattleboro
Barbara Feinberg Gabriel, B.A., UVM;
Burlington
Richard Louis Gamelli, A.B.,
St. Michael's; W. Springfield, Mass.
Stephen Tolman Glass, A.B., Harvard;
Westwood, Mass.
Albert Joseph Hebert, Jr., B.S.,
Notre Dame; Mars Hill, Me.
Keith Ray Hilliker, B.A., UVM;
Orleans
Stephan Mark Hochstin, B.A., UVM;
Windsor
Wilfred Perry Hodgdon, B.A.,
Middlebury; Coventry
James Newell Holcomb, B.A., UVM;
Guildhall
Robin Macdonald Houston, A.B.,
Harvard; Burlington
James Francis Howard, Jr., B.A., UVM;
Bellows Falls
Charles Edwin Irish, UVM; Burlington
Walter Henry Jacobs, B.S.,
SUNY Stony Brook; Bayville, N.Y.
Douglas Norman Klaucke, B.A.,
Worcester Polytechnic Inst., Yale;
Granby, Mass.
Frederick Carl Koerner, B.A., Carleton;
Shelburne
Dennis Sherwin Krauss, A.B., Harvard;
Brighton, Mass.

Neil Alan Lachant, B.A., UVM;
 Bennington
 Richard Paul Lampert, A.B., Bowdoin;
 Brunswick, Me.
 Thomas Joseph LaPlaca, B.A., UVM;
 Rutland
 Chele Diane Lavalla, B.A., McGill,
 UVM; So. Burlington
 Robert Bruce Leff, Univ. Mass;
 Longmeadow, Mass.
 Grace Fili Maguire, B.S., Tufts;
 Livingston, N.J.
 Kathleen Josephine Maguire, UNH;
 Laconia, N.H.
 Dennis William Maki, B.A., Holy Cross;
 Worcester, Mass.
 Thomas Andre McNulty, M.I.T.;
 North Troy
 Gregory Jon Melkonian, D.V.M.,
 Cornell, Vet. Med.; Barre
 William Martin Mercia, B.A., UVM;
 Williston
 Kathleen Marie Meyer, A.B., Smith;
 Westerly, R.I.
 Richard Janney Miller, B.S.,
 Middlebury, UVM; Burlington
 Joseph Michael Monaco, B.A.,
 Holy Cross; Saugus, Mass.
 John Frederick Moore, B.A., UVM;
 St. Johnsbury
 Betty Jo Morwood, B.A., UVM;
 Winooski
 Thomas Joel Myers, B.S., Notre Dame;
 Auburn, Mass.
 Constance Marianne Passas, B.A.,
 UNH; Dover, N.H.
 Frederick Michael Perkins, A.B.,
 Rutgers; Kennebunk, Me.
 John Arthur Persing, B.A., UVM;
 Burlington
 Stephen Jan Pierce, B.A., UVM;
 St. Albans
 Burt Geoffrey Piken, B.S., Univ. Mass.;
 Chestnut Hill, Mass.
 Lorraine Parent Racusen, B.A., UVM;
 Richmond
 Peter David Rappo, B.S., Univ. Mass;
 Brockton, Mass.
 Roger Alexander Renfrew, A.B.,
 Bowdoin; Northfield
 Virginia Palmer Riggs, A.B.,
 Mount Holyoke; Burlington
 Robert Paul Rocco, B.S., B.A.,
 Worcester Polytech, Clark;
 Pawtucket, R.I.
 John Fredric Rogers, A.B., Middlebury;
 Norwich
 Thomas Joseph Ruane, B.S.,
 Providence Coll.; Providence, R.I.
 William Alan Sargent, UVM;
 Brattleboro
 John Robert Saucier, A.B.,
 St. Michael's; Winooski
 Judith Amy Schein, A.B., Tufts;
 Middlebury; Burlington
 Peter Ray Schotanus, A.B., Calvin Coll.;
 Whitinsville, Mass.
 Jeffrey Adrian Schumacher, B.A., Yale;
 Burlington
 Christopher Tompkins Selvage, B.A.,
 Williams; Cape Elizabeth, Me.
 Douglas Mark Sewall, A.B., Bowdoin;
 Orono, Me.
 Jay Gregory Stearns, B.A., UVM;
 Shelburne
 Sally Annabelle Stockwell, B.A., UVM;
 Brattleboro
 James Michael Stubbett, B.A.,
 Northeastern; Brockton, Mass.
 Kenneth David Thomas, A.B., Harvard;
 Manchester, N.H.
 Robert Lloyd Thorne, B.A., Brooklyn
 Coll., Middlebury; Middlebury
 Richard Graves Voigt, B.A., Bradley;
 Greenville, R.I.
 James Kaunitz Wallman, B.A., UVM;
 Burlington
 William Brooks Ware, A.B., Colby;
 Stow, Mass.
 Lee Raymond Willett, A.B.,
 St. Anselm's; Laconia, N.H.

Sugarbush Valley



Photo: Vermont Development Department

National Ballet, one of many major attractions to appear on the University's endowed George Bishop Lane Artists Series



Calendar, 1971-72

September 1	Wednesday, 2:00 p.m.	Convocation
September 2	Thursday	Classes begin

Basic Science Core:

1st period: Sept. 2, 1971 (Thurs.) through Dec. 18, 1971 (Sat.)

Sept. 2	Thursday	Classes begin
Sept. 6	Monday	Labor Day recess
Oct. 18-19	Mon. through Tues.	Mid-trimester examinations
Nov. 25-28	Thurs. through Sun.	Thanksgiving recess
Dec. 11-13	Sat. through Mon.	Reading period
Dec. 14-18	Tues. through Sat.	End of trimester examinations
Dec. 18-Jan. 2 '72	Sat. through Sun.	Christmas recess

2nd period: Jan. 3 (Mon.) through Mar. 17 (Fri.)

Jan. 3, 1972	Monday	Classes resume
Feb. 7-8	Mon. through Tues.	Mid-trimester examinations
Mar. 11-14	Sat. through Tues.	Reading period
Mar. 15-18	Wed. through Sat.	End of trimester examinations
Mar. 18-26	Sat. through Sun.	Spring recess

3rd period: Mar. 27 (Mon.) through June 3 (Sat.)

Mar. 27	Monday	Classes resume
Apr. 24-25	Mon. through Tues.	Mid-trimester examinations
May 27-30	Sat. through Tues.	Reading period
May 31-June 3	Wed. through Sat.	End of trimester examinations

4th period: Sept. 2, 1971 (Thurs.) through Dec. 18, 1971 (Sat.)

Sept. 2	Thursday	Classes resume
Sept. 6	Monday	Labor Day recess
Oct. 18-19	Mon. through Tues.	Mid-trimester examinations
Nov. 25-28	Thurs. through Sun.	Thanksgiving recess
Dec. 13	Monday	Minitest
Dec. 14-18	Tues. through Sat.	End of trimester examinations

Clinical Science Core

Group I

Medicine and Surgery

Jan. 4 (Mon.)-Mar. 28 (Sun.)

Mar. 29 (Mon.)-June 18 (Fri.)

Group II

Obstetrics, Pediatrics, Psychiatry

Jan. 4 (Mon.)-Feb. 28 (Sun.)

Mar. 1 (Mon.)-Apr. 25 (Sun.)

Apr. 26 (Mon.)-June 18 (Fri.)

*Summer Recess: June 19 (Sat.) - July 5 (Mon.)

Obstetrics, Pediatrics, Psychiatry

July 6 (Tues.)-Aug. 29 (Sun.)

Aug. 30 (Mon.)-Oct. 24 (Sun.)

*Oct. 25 (Mon.)-Dec. 17 (Fri.)

Medicine and Surgery

July 6 (Tues.)-Sept. 26 (Sun.)

*Sept. 27 (Mon.)-Dec. 17 (Fri.)

*Thanksgiving Recess: Nov. 25 (Thurs.) - Nov. 28 (Sun.)

*Christmas Recess: Dec. 18 (Sat.) - Jan. 2, 1972 (Sun.)

* On certain services recesses are coordinated through the Department chairmen.

Senior Major Program

Rotation 1

Jan. 4 (Mon.)-Feb. 21 (Sun.)

Rotation 2

Feb. 22 (Mon.)-Apr. 14 (Sun.)

Rotation 3

Apr. 5 (Mon.)-May 16 (Sun.)

Rotation 4

May 17 (Mon.)-June 20 (Sun.)

Rotation 5

June 21 (Mon.)-Aug. 8 (Sun.)

Rotation 6

Aug. 9 (Mon.)-Sept. 19 (Sun.)

Rotation 7

Sept. 20 (Mon.)-Nov. 7 (Sun.)

Rotation 8

*Nov. 8 (Mon.)-Dec. 22 (Wed.)

Rotation 9

Jan. 3, 1972 (Mon.)-Feb. 20 (Sun.)

Rotation 10

Feb. 21 (Mon.)-Apr. 2 (Sun.)

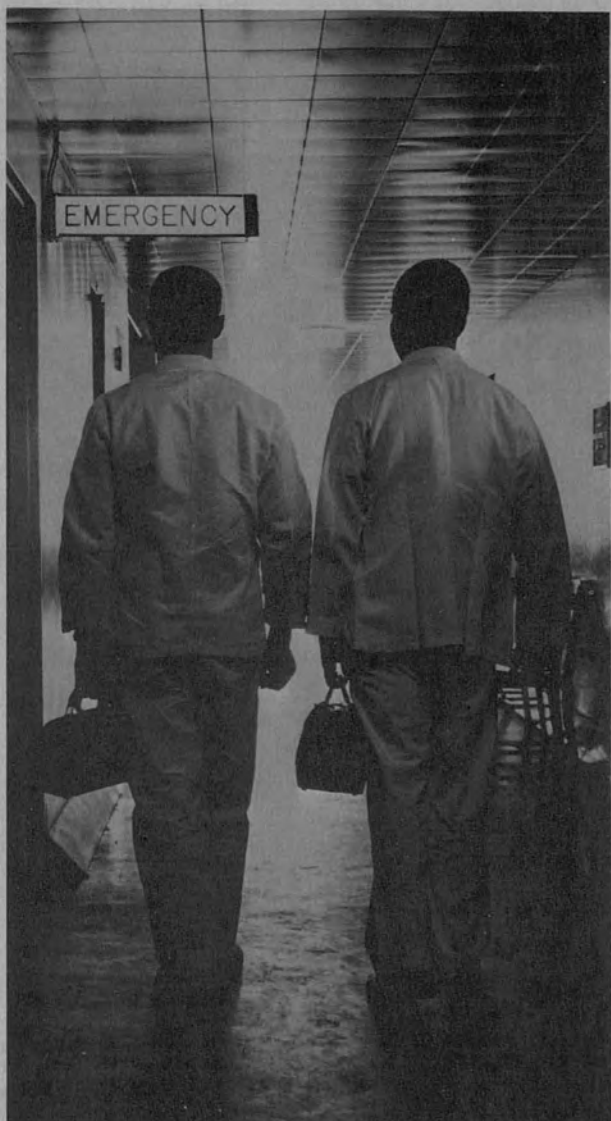
Rotation 11

Apr. 3 (Mon.)-May 19 (Fri.)

*Thanksgiving Recess: Nov. 25 (Thurs.) - Nov. 28 (Sun.)

*Christmas Recess: Dec. 23, 1971 (Thurs.) - Jan. 2, 1972 (Sun.)

* On services where students assume significant responsibility for patient care vacation periods are coordinated through the Department chairmen.



University of Vermont College
 United States, having been
 the Assoc.

the program to the 10
 in Medical Education and Hospitals of the respective medical institutions and
 for the respective Association of...

ACCREDITATION

The University of Vermont College of Medicine is one of 103 accredited schools of medicine in the United States, having been approved by the American Medical Association and by the Association of American Medical Colleges.

Its residency programs in the Medical Center Hospital of Vermont have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American Boards.

The first General Assembly of the State of Vermont, convened in 1791, chartered The University of Vermont.

Ira Allen, younger brother of Ethan, had given 4,000 pounds sterling to help establish the institution. Instruction was started in 1800 and the first class graduated four years later.

Meanwhile Dr. John Pomeroy, for many years the leading physician of Burlington, began around the turn of the century to take pupils. In 1804 he was appointed Lecturer in Chirurgery and Anatomy and, in 1809, Professor of Physic, Anatomy and Surgery at the University.